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1 MKENVASATVFTLLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNY 60
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Sequence 10. 409314
Sequence 10. 6083714
Sequence 10. 6083714
SEQUENCE NO. 6083714
SEQUENCE NO. 6083714
SEQUENCE NO. 6083714
SEQUENCE NO. 6083714
SEQUENCES 10. 6000 NACATON SECEPTORS
NUMBER OF SEQUENCES: 14
NUMBER OF SEQUENCES: 14
SEVENT: 419 Seventh Street, N.W., Suite 300
STREET: D.C.
COUNTRY: USA
STATE: D.C.
COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENIT N RELEASE STEM: PC-DOS/MS-DOS
SOFTWARE: PATENIT N RELEASE STEM: PC-DOS/MS-DOS
SOFTWARE: PATENIT N RELEASE STEM: PC-DOS/MS-DOS
SOFTWARE: PATENITON NUMBER: US/08/806,597A
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PRIOR APPLICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/012,503
FILING DATE: 29 February 1996
ATTORNEY/AGENT INFORMATION:
NAME: BROWDY, ROGER L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: KELLY=1A
TELECOMMUNICATION INFORMATION:
TELEFRAX: 202-737-3528
TELEFRAX: 202-737-3528
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                : 349 amino acids
amino acid
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Matches 210; Conservative
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MOLECULE TYPE: protein
US-08-806-597A-14
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Sequence 4,
Sequence 6,
Sequence 8,
Sequence 8,
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1166
1 MKENVASATVFTLLLFLNTC......KILSLHPGQKYLVQVRCKPD
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/cgn2_6/ptodata/2/jaa/5B_COMB.pep:*
/cgn2_6/ptodata/2/jaa/6A_COMB.pep:*
/cgn2_6/ptodata/2/jaa/6B_COMB.pep:*
/cgn2_6/ptodata/2/jaa/PCTUS_COMB.pep:*
/cgn2_6/ptodata/2/jaa/PCTUS_COMB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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US-09-000-145-4
US-09-000-145-4
US-08-90-428A-8
US-08-90-428A-8
US-08-970-428A-4
US-09-071-224-25
US-09-071-224-25
US-09-071-224-20
US-09-071-224-21
US-09-071-224-21
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US-09-071-224-21
US-09-071-224-21
US-09-071-224-22
US-09-071-224-23
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Maximum Match 100%
Listing first 45 summaries
                                                                                                OM protein - protein search, using sw model
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Gapop 10.0 , Gapext 0.5
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Maximum DB seq length: 200000000
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                                     US-09-120-601-2
US-09-00-145-5
US-09-00-145-3
US-09-120-145-3
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US-09-120-601-4
US-09-120-601-6
US-09-043-785-2
US-08-806-597A-6
US-08-24-982-3
US-08-24-982-3
US-08-24-982-3
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PCT-US95-03731-3
US-08-224-982-4
US-08-468-580-4
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Sequence 2. Application US/09000145
; Sequence 2. Application US/09000145
; Patent No. 6169172
; GENERAL INFORMATION:
; APPLICANT: DEVENDENCHELLE, Gerrard
; APPLICANT: CAHOREAU, Claire
; APPLICANT: CAHOREAU, Claire
; APPLICANT: CAHOREAU, Claire
; APPLICANT: CAHOREAU, USE OF A PROLACTIN RECEPTOR OR GROWTH HORMONE RECEPTOR
; TITLE OF INVENTION: INTRACYTOPLASMIC DOMAIN FOR ACHIEVING PROTEIN SECRETION
; TITLE OF INVENTION: INTRACYTOPLASMIC DOMAIN FOR ACHIEVING PROTEIN SECRETION
; TITLE OF INVENTION: USE OF A PROLACTIN POR ACHIEVING PROTEIN SECRETION
; TITLE OF INVENTION: USE OF A PROLACTION
; CURRENT FILING DATE: 1996-03-16
; EARLIER FILING DATE: 1996-08-02
; EARLIER FILING DATE: 1996-08-02
; BARLIER FILING DATE: 1996-08-02
; SARLIER FILING DATE: 1996-08-02
; SOFTWARE: PATENTION VET: 2.0
; SEQ ID NOS: 6
; SOFTWARE: PATENTION VET: 2.0
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Patent No. 6169172

GENERAL INFORMATION

APPLICANT: DEVANCHBLE, Gerrard

APPLICANT: CHOREAU, Claire

APPLICANT: CHOREAU, Claire

APPLICANT: CHOREAU, Claire

APPLICANT: CHOREAU, Claire

TITLE OF INVENTION: USE OF A PROLACTIN RECEPTOR OR GROWTH HORMONE RECEPTOR

TITLE OF INVENTION: USE OF A PROLACTIN RECEPTOR

TITLE OF INVENTION: UNTRACYTOPLASMIC DOMAIN FOR ACHIEVING PROTEIN SECRETION

FILE REPERENCE: 0384-0041-0XPCT

CURRENT APPLICATION NUMBER: US/09/000,145

CURRENT PRILING DATE: 1998-09-16

EARLIER APPLICATION NUMBER: PCT/FR96/01237

EARLIER APPLICATION NUMBER: FR 95/09420

EARLIER APPLICATION NUMBER: PS 95/09420

SARLIER APPLICATION NUMBER: PC 95/09420

SOFTWARE: PALENT VAIL OF 1995-08-02

NUMBER OF SEQ ID NOS: 6

SOFTWARE: PALENTIN VAIL 2:00
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89.4%; Score 1042.5; DB 3;
Best Local Similarity 99.5%; Pred. No. 6.1e-104;
Matches 187; Conservative 0; Mismatches 0; I
                                             181 EIHFAGQQTEFKILSLHPGQKYLVQVRCKPD 211
   180 EIHFAGQQTEFKILSLHPGQKYLVQVRCKPD 210
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ORGANISM: Homo sapiens
US-09-000-145-2
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US-09-000-145-4
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                                      61 SLTYHREGETLMHECPDXIIGGPNSCHFGKQYISMWRTYIMMVNATWGMGSSFSDELYVD 120
                                                                                                                                                                SLIYHREGETLMHECPDYIIGGPNSCHFGKQYISMWRTYIMMWNAT\QMGSSFSDELYVD 119
                                                                                                                             VIYIVQPDPPLELAVEVKQPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEW 179
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thes 0; Indels 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: KELLY, Paul A. and NAGANO, Makoto
TITLE OF INVENTION: SOLUBLE HUMAN PROLACTIN RECEPTORS
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W., Suite 300
CITY: Washington
STATE: D.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER EADABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: BEADABLE FORM:

COMPUTER: Patent BEADABLE

COMPUTER: Patent BEADABLE

COMPUTER: Patent BEADABLE

COMPUTER: Patent BEADABLE

SOFTWARE: Patent BEADABLE

COMPUTER: Patent BEADABLE

SOFTWARE: BATCHION DATA:

APPLICATION NUMBER: US (08/970,428A BEADATION DATA:

APPLICATION NUMBER: US 60/012,503

FILING DATE: 29-FEB-1996

PILING APPLICATION DATA:

APPLICATION NUMBER: US 08/806,597

FILING DATE: 26-FEB-1997

ATTOMNEY/AGENT INFORMATION:

NAME: YUN, Allen C.

REGISTRATION NUMBER: 37,971

REFERENCE/DOCKET NUMBER: 37,971
                                                                                                                                                                                                                                                      Query Match 99.1%; Score 1155.5; Best Local Similarity 99.5%; Pred. No. 1.8e Matches 210; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 2
US-08-970-428A-14
US-08-970-14-14
Sequence 14, Application US/08970428A
Patent No. 6083753
GENERAL INPORMATION
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MOLECULE TYPE: protein
US-08-970-428A-14
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US-08-806-597A-8
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GENERAL INFORMATION:

APPLICANT: GENOREAU, Claire

APPLICANT: CAHOREAU, Claire

APPLICANT: CHOREAU, Claire

CURRENT: CLING DATE: 1998-03-16

BEALLIER APPLICANTON NUMBER: PCT/FR96/01237

EARLIER FILING DATE: 1996-08-02

NUMBER: OF SEQ ID NOS: 6

SEQ ID NO 6

SEQ ID NO 6

LENGRIP 592

LENGRIP 592
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              84 NSCHECKOYISMWRIYIMMVNAI-OMGSSFSDELYVDVIYIVOPDPPLELAVEVKOPEDR 142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     KPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWEIHFAGOQTEFKILSLHPGQKYL 202
                                                                                                                                                                                                                                                    84 NSCHEGKOYTSMWRTYIMMVNAT-QMGSSFSDELYVDVTYIVQPDPPLELAVEVKQPEDR 142
                                                                                                                                                                                                                                                                           61 NSCYFSKKHTSIMTIYIITVNATNQMGSSVSDPRYVDVTYIVEPDPPVNLTLEVKHPEDR 120
                                                                                                                                                                                                                                                                                                                                                         KPYLWIKWSPPTLIDLKTGWFTLLYBIRLKPEKAAEWEIHFAGOOTEFKILSLHPGOKYL 202
                                                                                                                                                                           83
                                                                                                                                                                                              1 GQSPPGKPF1FKCRSPEKETFTCWRPGADGGLPTNYTLTYHKEGETITHECPDYKTGGP 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24 GOLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNYSLTYHREGETLMHECPDYITGGP
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                                                                                                                                     Gaps
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69.4%; Score 809.5; DB 3; Length 592;
Best Local Similarity 74.5%; Pred. No. 8.7e-79;
Matches 140; Conservative 19; Mismatches 28; Indels 1
                                                                                              Length 593;
                                                                                                                                   Indels
                                                                                              Query Match 74.1%; Score 863.5; DB 3; Best Local Similarity 79.3%; Pred. No. 1.3e-84; Matches 149; Conservative 18; Mismatches 20;
LENGTH: 593
TYPE: PRT
ORGANISM: Oryctolagus cuniculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; TYPE: PRT
; ORGANISM: Rattus rattus
US-09-000-145-6
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-09-000-145-6
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61 SLTYHREGETLMHECPDYITGGPNSCHFGKQYTSMWRTYIMMVNAT-QMGSSFSDELYVD 119
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 8, Application US/08970428A
Sequence 8, Application US/08970428A
Patent No. 6083753
GENERAL INFORMATION
APPLICANT: KELLY, Paul A. and NAGANO, Makoto
TITLE OF INVENTION: SOLUBLE HUMAN PROLACTIN RECEPTORS
NUMBER OF SEQUENCES:
ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W., Suite 300
CITY: Washington
STATE: D.C.
Sequence 8, Application US/08806597A
Patent No. 6083714
GENERAL INFORMATION:
APPLICANT KELLY, PAUL A. and NACANO, MAKOCO
ITILE OF INVENTION:
NUMBER OF SEQUENCES:
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK
                                                                                                                                                                                                                                                                                                                                                                                                                                                   OPERATING SYSTEM: PC-DOS/MS-DOS
SOCITAMES: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/806,597A
FILING DATE:
CLASSITEATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/012,503
FILING DATE: 29 February 1996
ATTONINY/AGENT INPORMATION:
NAME: BROWDY, ROGER L.
REGISTRATION NUMBER: 25,618
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: 25,618
TELECOMMULCATION INFORMATION:
TELECOMMULCATION INFORMATION:
TELECOMMULCATION INFORMATION:
TELECOMMULCATION INFORMATION:
                                                                                                                                                                                        ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W., Suite 300
CITY: Washington
                                                                                                                                                                                                                                                                                                                                 ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Flopy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/NS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        : 134 amino acids
amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEPHONE: 202-628-515
TELEFAX: 202-737-3528
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           120 VTYIVQPDP 128
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                                                                                                                                                                                                                                                                                 STATE: D.C.
COUNTRY: US.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-08-806-597A-8
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US-08-970-428A-8
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1 MKENVASATVFTLLLFLNTCLLNGOLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNY
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 118;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 4, Application US/08970428A
Patent No. 6083753
GENERAL INFORMATION:
APPLICANT: KELLY, Paul A. and NAGANO, Makoto
TITLE OF INVENTION: SOLUBLE HUMAN PROLACTIN RECEPTORS
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W., Suite 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY: USA

COUNTRY: USA

ZIP: 20004

ZIP: 2004

ZIP: 2004

ZIP: 2004

ZIP: 2004

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: Pacentin Release #1.0, Version #1.30

SOFTWARE: Pacentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US /08/970,428A'

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/012,503

FILING DATE: 29-FEB-1996

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/806,597

FILING DATE: 26-FEB-1997

ATOMNEY/AGENT INPORMATION:

NAME: YUN, Allen C.

REGISTRATION NUMBER: 37,971

REFERENCE/OCKET UNMBER: 37,971

RELECOMMULCATION INFORMATION:

TELEPHONE: 200-628-5197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 387; DB 3;
Pred. No. 3.8e-34;
1; Mismatches 2;
                                                                                                                                                          KELLY=1A
              FILING DATE: 29 February 1996 ATTORNEY/AGENT INFORMATION:
                                                                                    NAME: BROWDY, Roger L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: KEI
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 33.2%;
Best Local Similarity 95.8%;
Matches 69; Conservative
                                                                                                                                                                                                                                                                                           INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 118 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEFAX: 202-737-3528
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               : 118 amino acids
amino acid
3Y: linear
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                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY: linear

// MOLECULE TYPE: protein

US-08-806-597A-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-970-428A-4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61 SLTYHREGETLMHECPDYITGGPNSCHFGKQYTSMWRTYIMMVNATNQMGSSFSDELYVD 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 MKENVASATVFTLLFLFLNTCLINGQLPPGKPEIFKCRSPNKETFTCWRRPGTDGGLPTNY 60
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 58.2%; Score 679; DB 3; Length 134; Best Local Similarity 96.9%; Pred. No. 1.4e-65; Matches 125; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 34, Application US/08806597A

Sequence 4, Application US/08806597A

Patent No. 6083714

GENERAL INFORMATION:

APPLICANT: KELIY, Paul A. and NAGANO, MAKOTO

TITLE OF INVENTION: SOLUBLE HUMAN PROLACTIN RECEPTORS

NUMBER OF SEQUENCES: 14

CORRESPONDENCES: ADDRESS: ADDRESS: ADDRESSE: ADDRES
CIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DCS/MS-DCS
SOFTWARE: PatentIN Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
IR OAR 470.428A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: Patentin Release #1.0, Version #1.30-CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/806,597A
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/012,503
                                                                                                                                                                                                                            CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/970,428A
FILING DATE: 14.NOV-1997
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/012,503
FILING DATE: 29.FEB-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/806,597
FILING DATE: 26.FEB-1997
ATPONEY AGENT TIPORMATION:
NAME: VUN, Allen C.
REGISTRATION NUMBER: 37,971
REFERENCE/DOCKET NUMBER: KELLY=1B
TELECOMMUNICATION:
TELECHONE: 202-628-5197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEFAX: 202-737-3528
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
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amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY: linear
MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         120 VTYIVQPDP 128
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US-08-806-597A-4
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86 ILAGSCLYVG-LPPEKPVNISCWSKNMKDLTCRWTPGAHGETFLHTNYSLKYKLRWYGQD 144
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          15 LFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGG--LPTNYSLTYHREGETLM 72
                                     132 LAV-EVKOPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWE-IHFAGOQTE 189
145 NTCEDYHTVGPHSCHIPKD-LALFTPYEIWVEATNRLGSARSDVLTLDILDVVTTDPPPD 203
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           25.5%; Score 297; DB 3; Length 389; 38.0%; Pred. No. 1.1e-23; ive 27; Mismatches 85; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: FASTSEQ for Windows Version 2.0 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/071,224
                                                                                                                                                                                                            Sequence 26, Application US/09071224
; Sequence 26, Application US/09071224
; Patent No. 6271343
; APPLICANT: Lok, Si
APPLICANT: Johnsey, Anna C.
APPLICANT: Jelmberg, Anna C.
APPLICANT: Gilbert, Teresa
APPLICANT: Applicant: Foster, Donald C.
APPLICANT: Lehner, Joyce M.
TITLE OF INVENTION: MANMALIAN ZCYTORS
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
ADDRESSE: Zymogenetice
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PRIOR APPLICATION DATA:
APPLICATION UNMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Lunn, Paul G
REGISTRATION NUMBER: 32,743
REPERBUNGE/DOCKET NUMBER: 96-22
TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-442-6627
                                                                                                                        190 FKILSLHPGQKYLVQVRCKP 209
                                                                                                                                                                259 CRLAGLKPGTVÝFVQVŘCNP 278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ZIP: 98102
COMPUTER READABLE FORM:
MEDLUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
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SEQUENCE CHARACTERISTICS:
LENGTH: 389 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 38.0
Matches 76; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: 206-442-6678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Seattle
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                                                                                                                                                                                                                             RESULT 11
US-09-071-224-26
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                                                                                                               1 MXENVASATVFTLLLFLANTCLLNGQLPPGKPBIFKCRSPNKEFFTCWWRPGTDGGLFINY
                                                                                          1 MKENVASATVFTLILFINTCLLNGQLPPGKPBIFKCRSPNKETFTCWWRPGTDGGLPTNY
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            Score 387; DB 3; Length 118; Pred. No. 3.8e-34; 1; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE: FastER, bos
SOFTWARE: FastER for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/071,224
FILING DATE:
                                     Pred. No. 3.8e
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Lok, Si
APPLICANT: Presnell, Scott R.
APPLICANT: Jelmberg, Anna C.
APPLICANT: Gilbert, Teresa
APPLICANT: Foster, Donald C.
APPLICANT: Adams, Robyn L.
APPLICANT: Adams, Robyn L.
APPLICANT: Lehner, Joyce M.
TITLE OF INVENTON: MAMMALIAN ZCYTORS
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
ADDRESSEE: Zymogenetics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE: Zymogenetics
STREET: 1201 Eastlake Ave East
CITY: Seattle
                                                                                                                                                                                                                                                                                                             Sequence 25, Application US/09071224
Patent No. 6271343
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Lumn, Paul G
REGISTRATION NUMBER: 32,743
REFERENCE/DOCKET NUMBER: 96-21
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               INFORWATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERICS:
LENGTH: 389 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STATE: WA
COUNTRY: USA
ZIP: 98.02
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM COMPALIDLE
OPERATING SYSTEM: DO
            Query Match
Best Local Similarity 95.8%;
Matches 69; Conservative 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      76; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: 206-442-6678
                                                                                                                                                                        61 SLTYHREGETLM 72
                                                                                                                                                                                                 single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TOPOLOGY: linear MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
Matches 76; Conserva
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204 VHVSRVGGLEDQLSVRWV--SPPALKDF---LFQAKYQIRYRVEDSVDWKVVDDVSNQTS 258
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              15 LFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGG--LPTNYSLTYHREGETLM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            73 HECPDYLIGGPNSCHFGKQYTSMWRTXIMMVNAT-QMGSSFSDELYVDVTYIVQPDPPLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 25.4%; Score 296; DB 3; Length 385; Best Local Similarity 38.0%; Pred. No. 1.3e-23; Matches 76; Conservative 27; Mismatches 85; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READBALE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
CURFURMER: FastESD for Windows Version 2.0
SURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/071,224
                                                                                                                           Sequence 20, Application US/09071224;
Sequence 20, Application US/09071224;
Patent No. 6271343;
APPLICANT: Lok, Si
APPLICANT: Presentl, Scott R.;
APPLICANT: Presentl, Scott R.;
APPLICANT: Gilbert, Teresa
APPLICANT: Gilbert, Teresa
APPLICANT: Gilbert, Donald C.;
APPLICANT: Lehner, Doyce M.
TITLE OF INVENTION: MAMMALIAN ZCYTOR5
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
ADDRESSEE: Zymogenetics
STREET: 1201 Eastlate.
                                             190 FKILSLHPGOKYLVQVRCKP 209
                                                                             259 CRLAGLKPGTVÝFVQVRCNP 278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            32,743
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TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-442-6627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE:
CLASSIFICATION
FILING APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER:
ATTORNEY/ABGNT INFORMATION:
NAME:
LUIN, Paul G
REGISTRATION NUMBER: 32,74
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE CHARACTERISTICS:
LENGTH: 385 amino acids
TYPE: amino acid
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TELEX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Seattle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       USA
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STATE:
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LAV-EVKQPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWE-IHFAGQQTE 189
                         73 HECPDYITGGPNSCHFGKQYTSMWRTYIMMVNAT-QMGSSFSDELYVDVTYIVQPDPLE 131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LAV-EVKOPEDRKPYLWIKWSPPTLIDLKTGWFTLLYBIRLKPEKAAEWE-IHFAGOOTE 189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              86 ILAGSCLYVG-LPPEKPVNISCWSKNMKDLTCRWTPGAHGETFLHTNYSLKYKLRWYGQD 144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                15 LFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRRPGTDGG--LPTNYSLTYHREGETLM 72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 25.4%; Score 296; DB 3; Length 303; Best Local Similarity 38.0%; Pred. No. 9.5e-24; Matches 76; Conservative 27; Mismatches 85; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ZIP: 98102
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastESG for Windows Version 2.0
CURRENY APPLICATION DATA:
APPLICATION NUMBER: US/09/071,224
                                                                                                                                                           ATTORNEY/AGENT INFORMATION:
NAME: Lunn, Paul G
REGISTRATION NUMBER: 32,743
REFRENCE/DOCKET NUMBER: 96-22
TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-442-6627
TELEPAX: 206-442-6678
                                                                                                     259 CRLAGLKPGTVYFVQVRCNP 278
                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADDRESSEE: Zymogenetics
STREET: 1201 Bastlake Ave East
CITY: Seattle
                                                                         190 FKILSLHPGQKYLVQVRCKP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH: 303 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY: linear // MOLECULE TYPE: protein US-09-071-224-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE:
CLASSIFICATION:
                                                                                                                                                                   RESULT 12
US-09-071-224-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CITY:
STATE:
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Db à g 262 CRLAGLKPGTVYFVQVRCNP 281

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190 FKILSLHPGOKYLVQVRCKP 209

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LENGTH: 389 amino acids
TYPE: amino acid
STRANDEDNESS: single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 132 LAV-EVKOPEDRKPYLMIKMSPPTLIDLKTGWFTLLYEIRLKPEKAAEWE-IHFAGQOTE 189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           89 ILAGSCLYVG-LPPEKPVNISCWSKNMKDLTCRWIPGAHGETFLHTNYSLKYKLRWYGQD 147
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15 LFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGG--LPTNYSLTYHRBGBTLM 72
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25.4%; Score 296; DB 3;
Best Local Similarity 38.0%; Pred. No. 1.3e-23;
Matches 76; Conservative 27; Mismatches 85.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: Diskette
COMPUTER: Diskette
COMPUTER: Diskette
COMPUTER: IBM Compatible
COMPUTER: IBM COMPATIBLE
SOFFMATHOR SYSTEM: DOS
SOFFMATHOR SYSTEM: DOS
SOFFMATHOR SYSTEM: US/09/071,224
APPLICATION NUMBER: US/09/071,224
FILING DATE:
PRIOR APPLICATION:
PRIOR APPLICATION:
APPLICATION NUMBER: 32,743
REFERENCE/DOCKET NUMBER: 96-22
TELECOMMUNICATION INFORMATION:
TELERAK: 206-442-6679
                                                                                                                                                          APPLICANT: Lok, Si
APPLICANT: Dresnell, Scott R.
APPLICANT: Jelhoberg, Anna C.
APPLICANT: Jelhoberg, Anna C.
APPLICANT: Gilbert, Teresa
APPLICANT: Foster, Donald C.
APPLICANT: Adams, Robyn L.
APPLICANT: Adams, Robyn L.
APPLICANT: Lehner, Joyce M.
TITLE OF INVENTION: WAMMALIAN ZCYTORS
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
ADDRESSEE: Zymogenetics
STREET: 1201 Eastlake Ave East
CITY: Scattle
STATE: WA
COUNTRY: USA
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259 CRLAGLKPGTVÝFVQVRCNP 278
                                                                                                     Sequence 17, Application US/09071224
Patent No. 6271343
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SEQUENCE CHARACTERISTICS:
LENGTH: 388 amino acids
TYPE: amino acid
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MEDIUM TYPE: Diskett
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73 HECPDYITGGPNSCHFCKQYTSMWRTYIMMVNAT-OMGSSFSDELYVDVTYIVQPDPPLE 131
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MEDIUM TYPE: Diskette
COMPUTER: ISK COMPATIDE
OFBRATING SYSTEM: DOS
SOFFWARE: Fast-SEG for Windows Version 2.0
CURRENT PAPLICATION DATA:
APPLICATION NUMBER: US/09/071,224
us-09-071-224-27
; Sequence 27, Application US/09071224
; Patent No. 6271343
; GENERAL INPERMATION;
; APPLICANT: Lok, Si
APPLICANT: Presnell, Scott R.
; APPLICANT: Gilbert, Anna C.
APPLICANT: Gilbert, Donald C.
APPLICANT: Golbert, Donald C.
APPLICANT: Roster, Donald C.
APPLICANT: Lohner, Joyce M.
TITLE OF INVENTION: MARMALIAN ZCYTORS
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
ADDRESSPONDENCE ADDRESS:
STREET: STREETER: Zymogeneter:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           190 FKILSLHPGQKYLVQVRCKP 209
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                                                                                                                                                                                                                                                                                                                                                                          ADDRESSEE: Zymogenetics
STREET: 1201 Eastlake Ave East
CITY: Seattle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: LUND, Paul G
REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE/DOCKET NUMBER: 96-
TELECOMUNICATION INFORMATION:
TELEPHONE: 206-442-6677
TELEPAX: 206-442-6678
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Search completed: May 12, 2004, 16:20:03 Job time: 23 secs

us-10-029-079-3.rag

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May 12, 2004, 16:10:55 ; Search time 61 Seconds (without alignments) 972.705 Million cell updates/sec
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1166
1 MKENVASATVFTLLLFLNTC......KILSLHPGQKYLVQVRCKPD 210
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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Maximum Match 100%
Listing first 45 summaries
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Gapop 10.0 , Gapext 0.5
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1: geneseqp1980s:*
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5: geneseqp2001s:*
6: geneseqp2003s:*
7: geneseqp2003bs:*
8: geneseqp2003bs:*
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Maximum DB seq length: 2000000000
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Perfect score:
Sequence:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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## ALIGNMENTS

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growth hormone (GH) exert their effects by inducing the homodimerisation of their respective receptors, initiating the activation of receptor-associated kinases and signalling cascades. The human PRLBP (hPRLBP) was identified in human serum and is homologous to the extracellular domain cELD) of PRLB. A recombinant hPRLBP has been shown to inhibit PRL-induced cellular proliferation of Nb2 (not defined). The PRLBP, or composition containing it, is useful for inhibiting Nb2 cells, for diagnosing disease or conditions associated with sometolactogenic function, for raising an anti-PRLBP antibody, for treating breast and prostate cancer and for treating conditions associated with excess prolactin and growth hormone, such as plutitary adenomas, which can lead to hyperprolactinaemia or gigantism/acromegaly. The sequence presented is the human recombinant prolactin-binding protein, rhPRLBP
                                                                                                                                                                                                                                                                                               SLTYHREGETLMHECPDYITGGPNSCHFGKQYTSMWRTYIMMVNATQMGSSFSDELYVDV 120
                                                                                                                                                                                                                                                                                                                  SLIYHREGETLMHECPDYITGGPNSCHFCKQYTSMWRTYIMWNATQMGSSFSDELYVDV 120
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                                                                                                                                                                                                                                                                      1 MKENVASATVFILLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNY
                                                                                                                                                                                                                                                 MKENVASATVFTLLLFLNTCLLNGQLPPGKPEI FKCRSPNKETFTCWWRPGTDGGLPTNY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 hPRLR; soluble; prolactin receptor; gastrointestinal; splice variant; binding protein; prolactin; growth hormone; agonist; antagonist.
                                                                                                                                                                                                                          Gaps
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                                                                                                                                                                                                 Length 210;
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                                                                                                                                                                                                 100.0%; Score 1166; DB 5;
100.0%; Pred. No. 6.7e-107;
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                                                                                                                                                                                                                         0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAY96921 standard; peptide; 349 AA.
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Best Local Similarity 100.
Matches 210; Conservative
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(ISTF ) ARS APPLIED
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N-PSDB; AAA53593.
                                                                                                                                                                          Sequence 210 AA;
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che human prolactin receptor (hPRLR) isoforms have been isolated from the human gastrointestinal tract. The isoforms have a deletion in the extra or intracellular domain and are thought to be generated by a thermative splicing, since four clones (A, B, C and E) precisely lack one or two exons. Except for clone C, the deletion in all other clones cransmembrane domain. The soluble hPRLR may be used as a binding protein for human prolactin and/or human growth hormone, which can be used in the reapeauties for the detection and measurement of the binding ligand or in therapeutics for binding to human prolactin and/or human growth hormone to retard or inhibit their hormone activities. They may also be used in place of monoclonal antibodies to provide solution-based radioligand creceptor assays, in receptor sandwich or enzymatic assays, and in X-ray crystallographic analysis to develop molecular models, which define the tentiary structure of the hormone-binding domains, where such information would be useful in common and its receptor. This structure of the actual contact between a hormone and its receptor. This structure of the actual contact between a hormone and its receptor. This structure of the actual contact between a hormone and its receptor. This structure of the actual contact between a hormone and its receptor. This structure of the actual contact between a hormone and its receptor. This structure of the actual contact between a hormone and its receptor and an actual contact between a hormone and its receptor. This structure of the actual contact between a hormone and its receptor and an actual contact between a hormone and expense and an actual contact between a hormone and expense and actual contact between a hormone and expense and actual contact between a hormone and expense and an actual contact between a hormone and expense and actual contact between a sect
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'label= Signal_peptide
Disclosure, Col 35-38; 26pp; English.
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97US-00806597.
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Matches 210; Conservative
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26-FEB-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10-OCT-2000
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The present sequence is that of a newly identified isoform of the human prolactin receptor (PRLR), which lacks a large part of the intracellular domain (amino acids 312-503) of the full-length receptor and has a short cytoplasmic tail. 6 Isoforms (see AAA49976-82) of human PRLR have been identified in human colonic Caco-2 and human breast cancer T-47D cells. Recombinant DNA molecules encoding the soluble PRLR proteins are provided, as well as expression vectors and host cells. The soluble PRLRs may be used as binding proteins for human prolactin and/or human growth hormone, which can be useful in diagnostics for the detection and new prolactin and/or human growth hormone activities. They may also be used in place of monoclonal contains to provide solution. Dased radiolisand receptor assays, in receptor analysis to develop molecular models that define the tertiary structure analysis to develop molecular models that define the tertiary structure insight into the structure of the actual contact between a hormone and its receptor. This structural information would be useful in the design of the formation and hormone and its receptor. This structural information would be useful in the design of the formation are insight into the actual contact between a hormone and its propriet or provide insight or provide and its receptor. This structural information would be useful in the design of the formation or growth hormone-like agonistic or
                                                                                                                                                                                                                                    New recombinant DNA having a segment encoding a signal peptide joined translationally to a segment encoding a soluble human prolactin receptor useful as a hormone growth hormone binding protein, and in x-ray crystallographic analysis.
                   SYSTEMS HOLDING NV.
SANTE & RECH MEDICALE.
                                                                                                                                                                                                                                                                                                                                                                            Claim 15; Col 35-38; 27pp; English.
                      (ISTF ) ARS APPLIED RES (INRM ) INSERM INST NAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                antagonistic activity
                                                                                                      Kelly PA, Nagano M;
                                                                                                                                                         2000-464346/40.
                                                                                                                                                                                N-PSDB; AAA49980
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Sequence 349 AA;

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119
                                                                                                                                           SLIYHREGETLMHECPDYITGGPNSCHFGKQYISMWRTYIMMVNAINQMGSSFSDELYVD 120
                                                              9
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                                                                                 1 MKENVASATVFTLLFLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNY
                                                                                                                                                                                                     1 MKENVASATVFTLLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNY
                                                                                                                      SLIYHREGETLMHECPDYITGGPNSCHFGXQYTSMWRTYIMMVNAT-QMGSSFSDELYVD
                                                                                                                                                                                 VIYIVQPDPPLELAVEVKQPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEW
                                Gaps
                              1;
Score 1155.5; DB 3; Length 349;
Pred. No. 1.4e-105;
0; Mismatches 0; Indels 1;
                                                                                                                                                                                                                                              EIHFAGQQTEFKILSLHPGQKYLVQVRCKPD 210
                                                                                                                                                                                                                                                                   EIHFAGQQTEFKILSLHPGQKYLVQVRCKPD 211
 99.1%;
 Query Match
Best Local Similarity 99.5
Matches 210; Conservative
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Sequence 622 AA;

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receptor; PRL; assay; antibody; growth hormone
                    AAR10795 standard; protein; 622 AA
                                                                            Human prolactin receptor.
                                                                                                Human prolactin
                                                         25-APR-1991
                                                                                                                    Homo sapiens
                                       AAR10795;
RESULT 4
AAR10795
                            SXXXXXXXXXX
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The human PRL receptor cDNA is isolated by screening a lambda gt 10 library prepared from normal human hepatoma Hep G2 and T47-D breast cancer cells. Initially, 1x10 6 recombinants are screened with the cancer cells. Initially, 1x10 6 recombinants are screened with the receptor. One positive recombinant was isolated from the Hep G2 library, which was later used as a probe to rescreen the library. Five additional connection of the six cDNAs, a PRL receptor cDNA of 2.5 kb was constructed, contg. a single ORF of 1866 bp. Similar partial length cDNA were isolated from the T47-D library. Several regions of sequence identity between the human growth hormone and PRL receptors can be found, both in the extracellular and cytoplasmic domains. The sequence is an important genetic engineering tool which may be used for the screening of growth hormone variants, for the development can expect the measure PRL receptor levels in human breast and prostate cancer biopsies, for the measurement of bloactive forms of prolactin, and for the development of drugs to induce stimulation or inhibition of
                                                                                                                                                                                                                                                                                                                                                                                                         Isolated CDNA sequence encoding human prolactin receptor - useful for expressing the receptor, e.g. for screening assays and antibody prodn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Fig 1 (A-E); 11pp; English.
                                     1. .24
/label=_sig_peptide
                                                                      25. .622
/label= mat_protein
             Location/Qualifiers
                                                                                                                                                                                                    88US-00286445.
                                                                                                                                                                                                                                          88US-00286445
                                                                                                                                                                                                                                                                           (ROYA-) ROYAL INST ADVAN
                                                                                                                                                                                                                                                                                                                 Kelly PA, Djiane J;
                                                                                                                                                                                                                                                                                                                                                      WPI; 1991-065341/09.
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                                                                                                                                                                                                    16-DEC-1988;
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                                                                                                                                                                 12-FEB-1991.
                                                                                                                              US4992378-A.
                                     Peptide
                                                                          Protein
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119
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                                                                                                                                                             61 SLIYHREGETLMHECPDYITGGPNSCHFGKQYTSMWRIYIMMVNAT-QMGSSFSDELYVD
                                                                                                       1 MKENVASATVFTLLIFINTCLINGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNY
                                                                                1 MKENVASATVFTLLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNY
Score 1155.5; DB 2; Length 622;
Pred. No. 2.9e-105;
0; Mismatches 0; Indels 1;
      99.1%;
99.5%;
        Query Match
Best Local Similarity 99.53
Matches 210; Conservative
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121 VTYIVQPDPPLELAVEVKQPEDRKPYLMIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEW 180 210 180 EIHFAGQQTEFKILSLHPGQKYLVQVRCKPD 181 EIHFAGQQTEFKILSLHPGQKYLVQVRCKPD Æ ABJ05555 standard; protein; 622 RESULT 5
ABJ05555
ID ABJ0
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ABJ05555;

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The invention comprises a method of detecting a breast cancer-associated transcript in a cell from a patient. The method of the invention involves contacting a biological sample from the patient with a nucleotide that hybridises to one of the 69 breast cancer-associated gene sequences shown in the specification. The method of the invention is useful in the cup or down-regulated in breast cancer, and for detecting genes that are up or down-regulated in breast cancer cells. Genes identified by the method of the invention can be used in diagnostic purposes and also as targets for screening for therapeutic compounds that modulate breast cancer (e.g. hormones or antibodies). Identification of genes that are cover or under expressed in breast cancer can additionally provide high-resolution, high-sensitivity datasets which can be used in the areas of diagnostics, therapeutics, drug development, pharmacogenetics, protein about control and biosensor development. Amino acid sequences ABJ05536 associated genes of the invention
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                                                                                              Breast cancer; breast cancer-associated gene sequence; drug development;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Detecting a breast cancer-associated transcript in a patient's cell, useful for diagnosing breast cancer, comprises contacting a biological sample with a polynucleotide that selectively hybridizes with breast
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99.5%; Pred. No. 2.9e-105;
ive 0; Mismatches 0;
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                                                                                                            pharmacogenetics; biosensor development
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Page 365; 414pp; English
                                                       Breast cancer-associated protein 20.
                                                                                                                                                                                                                                                                                                       24-JAN-2001; 2001US-0263965P.
02-FEB-2001; 2001US-026928P.
09-APR-2001; 2001US-028269P.
04-MAY-2001; 2001US-0288590P.
29-MAY-2001; 2001US-0288590P.
                                                                                                                                                                                                                                                                                                                                                                                                                                             (EOSB-) EOS BIOTECHNOLOGY. INC
                                                                                                                                                                                                                                                                  24-JAN-2002; 2002WO-US002242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mack DH, Gish KC, Afar D;
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es 210; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            nucleic acids.
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                                                                                                                                                                                        WO200259377-A2
                                                                                                                                                   Unidentified
                                                                                                                                                                                                                             01-AUG-2002,
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The invention discloses an isolated polynucleotide and polypeptide of the human prolatorin receptor (PRLS). The neuroendocrine hormone prolatin public than prolatorin receptor (PRLS). The neuroendocrine hormone prolatin prolatorin receptor (PRLS). The neuroendocrine hormone prolatin prolatorin strains are useful in the etiology of mammary disorders, such as breast cancer, and since PRLR mediates the disease. The polypeptides are useful in screening for drugs that are useful for treating breast cancer, autoimmune diseases, hyperprolatinaemia and disease associated with PRLR activity. The haplotyping method is also used by the pharmaceutical research scientist to validate PRLR as a candidate target for treating these specific conditions or disease specific condition of disease associated with PRLR activity. Antibodies raised against PRLR are useful in diagnostic, prognostic and therapeutic methods. The polymucleotide is useful for gene therapy and in studying the expression and function of PRLR and the effect of the single nucleaded by the gene located on chromosome 5p14-p13.
                                                                                                                                                                                                                                                           Human, receptor; prolactin receptor; PRLR; cytostatic; immunosuppressive; chromosome 5p14-p13; neuroendocrine hormone; prolactin; PRL; breast differentiation; puberty; pregnancy; lactation; muberty; pregnancy; lactation; mammary disorder; breast cancer; autoimmune disease; hyperprolactineemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Novel genetic variants of Prolactin Receptor isogenes, useful for improving efficiency and reliability in drug development for treating breast cancer, autoimmune diseases and hyperprolactinemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 MKENVASATVFTLLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNY
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99.1%; Score 1155.5; DB 5; Length
Best Local Similarity 99.5%; Pred. No. 2.9e-105;
Matches 210; Conservative 0; Mismatches 0; Indels
EIHFAGQQTEFKILSLHPGQKYLVQVRCKPD 211
                                                                                                                                                                                                                         Human prolactin receptor (PRLR) protein.
                                                                                                    Å.
                                                                                                  AAU99354 standard; protein; 622
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Koshy B;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 27; Fig 3; 81pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (GENA-) GENAISSANCE PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18-DEC-2001; 2001WO-US049049.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              18-DEC-2000; 2000US-0256523P.
                                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Bieglecki KM, Duda A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2002-528446/56.
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                                                                                                                                                                                                                                                                                                                                                                                                                         WO200250098-A2.
                                                                                                                                                                                                                                                                                                                                          gene therapy
                                                                                                                                                                                07-OCT-2002
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  181
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                                                           RESULT
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119 120

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Gaps

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Indels

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Mismatches

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Conservative

210;

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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Breast cancer diagnosis or treatment by comparing the level of expression of a marker in a patient sample with that in the control non-breast cancer sample.
                SLTYHREGETLMHECPDYIIGGPNSCHFGKQYTSMWRTYIMWWATWQMGSSFSDELYVD 120
                                                                             VIYIVQPDPPLELAVEVKQPEDRKPYLMIKMSPPTLIDLKTGMFTLLYEIRLKPEKAAEW 180
                                                            VTYIVQPDPPLELAVEVKQPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEW
SLIYHREGETLMHECPDYITGGPNSCHFGKQYTSMWRTYIMMVNAT-QMGSSFSDELYVD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   K, Hoersh S, Kamatkar S;
Wang Y, Xu Y, Zhao X, Meyers R
L, Meric F, Sahin A, Mills GB;
                                                                                                                                                                                                                                                                                                                                NO:373.
                                                                                                                                                                                                                                                                                                                                Breast cancer associated protein sequence SEQ ID
                                                                                                                                                                                                                                                                                                                                                              Human; breast cancer; cytostatic; gene therapy
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                                                                                                                                              EIHFAGQQTEFKILSLHPGQXYLVQVRCKPD
                                                                                                                          180 EIHFAGQQTEFKILSLHPGQKYLVQVRCKPD
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Pusztai L,
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                                                                                                                                                                                                                                    ABR47567 standard; protein; 622
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2001US-0301572P.
2001US-0306501P.
2001US-0325002P.
2002US-0362585P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2002US-0380391P.
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                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 , Gannavarapu M,
M, Monahan JE, M
Hortobagyi GN,
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05-MAR-2002;
14-MAY-2002;
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18-JUL-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Lillie J,
                                                                                                                                                                                                                                                                    ABR47567;
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61
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Score 1155.5; DB 6; Length 622; Pred. No. 2.9e-105;

99.1%;

Query Match Best Local Similarity

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119
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                                                                                                                                         VTYIVQPDPPLELAVEVKQPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEW 179
                                                                                                                                                              VIYIVQDDPPLELAVEVKQPEDRKPYLMIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEW 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human, receptor; prolactin receptor; PRLR; cytostatic; immunosuppressive; chromosome 5p14-p13; neuroendocrine hormone; prolactin; PRL; breast growth; breast differentiation; puberty; pregnancy; lactation; mammary disorder; breast cancer; autoimmune disease; hyperprolactinaemia; gene therapy; single nucleotide polymorphism; SNP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention discloses an isolated polynucleotide and polypeptide of the human prolactin receptor (PRLR). The neuroendocrine hormone prolactin prolactin a growth and differentiation during puberty, pregnancy and lactation. PRL has been implicated in the etiology of mammary disorders, such as breast cancer, and since PRLR mediates the effects of prolactin, it may also be involved in the etiology of the disease. The polypeptides are useful in screening for drugs that are useful for treating breast cancer, autoimmune diseases, the polypeptides as associated with PRLR activity. The haplotyping method is also used by the pharmaceutical research scientist to validate PRLR as a candidate target for treating these specific
9
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                                                                                         SLIYHREGETLMHECPDYITGGPNSCHFGKQYTSMWRTYIMMVNATNQMGSSFSDELYVD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Novel genetic variants of Prolactin Receptor isogenes, useful for improving efficiency and reliability in drug development for treating breast cancer, autoimmune diseases and hyperprolactinemia.
                                1 MKENVASATVFTLLLFLNTCLINGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNY
                                                                    SLTYHREGETLMHECPDYITGGPNSCHFGKQYTSMWRTYIMMVNAT-QMGSSFSDELYVD
MKENVASATVFTLLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNY
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human prolactin receptor (PRLR) variant protein.
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                                                                                                                                                                                                               EIHFAGQQTEFKILSLHPGQKYLVQVRCKPD 210
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N-PSDB; ABK87971.
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Misc-difference
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conditions or diseases predicted and in the design of clinical trials for treating a specific condition of disease associated with PRLR activity. Antibodies raised against PRLR are useful in diagnostic, prognostic and therapeutic methods. The polymucleotide is useful for gene therapy and in studying the expression and function of PRLR and the effect of the single nucleotide polymorphisms (SNP) on the biological activity of PRLR. The sequence presented is the human prolactin receptor (PRLR) protein, variant #2, which is encoded by the gene located on chromosome 5p14-p13. Note: This sequence is not shown in the specification but was created by the indexer from information given in figure 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                               120
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                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                      1;
                                                                                                                                                                                                                                                                  Length 622;
                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                              DB 5;
                                                                                                                                                                                                                                                              Score 1154.5; DB 5;
Pred. No. 3.6e-105;
1; Mismatches 0;
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                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 99.1%;
Matches 209; Conservative
                                                                                                                                                                                                                          Sequence 622 AA;
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Truncated human prolactin binding protein variant
                                         hPRLbp; placental lactogen; zinc finger; chelate; receptor-ligand complex.
                                                               Location/Qualifiers
188
     AAR24273 standard; protein; 211
                        (first entry)
                                                                  Key
Misc-difference
                                                         Homo sapiens
                       20-JUL-1992
              AAR24273;
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/note= "wild-type His replaced by Ala"

WO9203478-A

16-AUG-1991;

91WO-US005856

90US-00568936 17-AUG-1990;

(GETH ) GENENTECH INC.

New method of modifying polypeptide hormone-receptor complex - to produce human growth hormone variant, useful for stimulating lactogenic and somatogenic response.

Wells JA;

Matthews DJ,

Lowman HB,

Fuh G,

Cunningham BC,

Bass SH,

WPI; 1992-096838/12.

Claim 41; Page 56; 74pp; English

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120
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                                                                                                                                                                                                                                       143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New method of modifying polypeptide hormone-receptor complex - to produce human growth hormone variant, useful for stimulating lactogenic and
                                                                                                                                                                           84
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                                                                                                                                                                                                                                                         SCHFGKQYTSMWRTYIMWWATNQMGSSFSDELYVDVTYIVQPDPPLELAVEVKQPEDRK
                                                                                                                                                                                                                                                                                                                     121 PYLMIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWEIHFAGQQTEFKILSLHPGGKYLV
                                                                                                                                                                                                                                                                                                     144 PYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWEIHFAGOQTEFKILSLHPGQKYLV
                                                                                                                                                                                                       1 OLPPGKPEIFKCRSPNKETFTCWWRPGIDGGLPINYSLIYHREGETLMHECPDYIIGGPN
                                                                                                                                                                                                                                     SCHFGKQYTSMWRTYIMMVNAT-QMGSSFSDELYVDVTYIVQPDPPLELAVEVKQPEDRK
                                                                                                                                                                           QLPPGKPEIFXCRSPNKETFTCWWRPGTDGGLPTNYSLTYHREGETLMHECPDYITGGPN
                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JA;
Plasmid phPRLbp(1-211) (see AAR22228) coding for truncated, soluble prolactin binding protein was mutagenised such that the His codon at position 188 was substituted by an Ala codon. The hPRLbp variant has altered binding affinity for hGH
                                                                                                                                           1;
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                                                                                                             Length
                                                                                                               DB 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     hPRLbp; placental lactogen; zinc finger; chelate; receptor-ligand complex.
                                                                                                                           Pred. No. 4.3e-94;
0; Mismatches 0;
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                                                                                                               Score 1036.5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Truncated human prolactin binding protein.
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                                                                                                                           Best Local Similarity 99. Matches 186; Conservative
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                                                                                 Seguence 211 AA;
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                                                                                                               Query Match
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(CURA-) CURAGEN CORP
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AAY96918
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                                                                                          SCHFCKQYTSMWRIYIMMUNAI-QMGSSFSDELYVDVIYIVQPDPPLELAVEVKQPEDRK 143
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                                                                                                                                                                                                                                                                                                                                         antisthmatic; antillipaemic; metabolic; diabetes; obesity; infectious; anorexia; cancer; cardiovascular; hypertension; atherosclerosis; neurodegenerative; Alzheimer's disease; Parkinson's; epilepsy; immune; osteoarthritis; haemopoletic; inflammatory skin; asthma; dyslipidaemia; neurogenesis; cell differentiation; proliferation; haemopolesis; wound healing; anglogenesis; gene therapy; chromosome mapping; tissue typing; human; NOV.
                                                                                                                             PYLWIKWSPPTLIDLKTGWFTLLYBIRLKPBKAABWEIHFAGQQTBFKILSLHPGQKYLV
                                                                  QLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNYSLTYHREGETLMHECPDYITGGPN
                                      ij
                   Score 1036.5; DB 2; Length 211;
Pred. No. 4.3e-94;
0; Mismatches 0; Indels 1;
                                                                                                                                                                                                                                 ADE28697 standard; protein; 597 AA.
                                                                                                                                                                                                                                                                                       Human NOV18a protein - SEQ ID 74.
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20010S-0341477P.

20010S-0341540P.

20010S-034592P.

20010S-0344939P.

20020S-03732899.

20020S-038981P.

2002US-038981P.

2002US-0383344P.
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2002US-0384024P.
2002US-0401788P.
2002US-0406353P.
                  99.0%;
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                                                                                                                                                                                                                                                                     (first entry)
                               Best Local Similarity 99.5
Matches 186; Conservative
                                                                                                                                                                                     OVRCKPD 187
                                                                                                                                                                   QVRCKPD 210
                            Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                      WO2003040330-A2.
   Sequence 211 AA;
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07-DEC-2001;
17-DEC-2001;
17-DEC-2001;
20-DEC-2001;
20-DEC-2001;
21-DEC-2001;
21-APK-2002;
11-AMY-2002;
28-MAY-2002;
28-MAY-2002;
29-MAY-2002;
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26-AUG-2002;
31-OCT-2002;
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                     Query Match
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The invention relates to a novel isolated NOVX polypeptide. The CC cardiant, hypotensive, antiarteriosclerotic, virucide, antibacterial, cardiant, hypotensive, antiarteriosclerotic, virucide, antibacterial, cordiant, hypotensive, antiarteriosclerotic, virucide, antibacterial, cordiant, osteopathic, antiarthritic, antipflammatory, dermatological, antiasthmatic and antilipaemic activities. The colypeptides, moleic acid molecules and antibaces may be useful for treating or diagnosing diseases including metabolic disorders such as diabetes and obesity, infectious disease, anorexia, cancer, cardiovascular diseases including Mypertension and atherosclerosis, cardiovascular diseases including hypertension and atherosclerosis, cardiovascular disorders such as Alzheimer's disease, Parkinson's disease and epilepsy, immune disorders e.g. osteoarthritis, haemopoietic disorders, inflammatory skin disorders, asthma and dyslipidaemia. CC disorders, the nucleic acids and polypeptides may also be used to identify molecules that modulate or inhibit neurogenesis, cell differentiation and proliferation, haemopoiesis, wound healing and collegenesis, as well as in gene therapy. Finally, the nucleic acids may be used as hybridisation probes, in chromosome mapping, tissue typing, consucer medicine and pharmacogenomics. The current sequence is that of the human NOV protein of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               61 SLTYHREGETLMHECPDYITGGPNSCHFGKQYTSMWRTYIMMVNAT-QMGSSFSDELYVD 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           120 VTYIVQPDPPLELAVEVKQPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEW 179
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Burgess CE, Casman SJ, Chapoval A, Dhanabal M, Edinger SR, Eisen A;
Bllerman K, Ettenberg S, Gangolli EA, Gerlach VL, Gorman L;
Grosse WM, Guo X, Hackett C, Ji M, Kekuda R, Khramtsov NV;
Lepley DM, Li L, Macdougall JR, Malyankar UM, Mazur A, Mcqueeney K;
Mezes PS, Miller CE, Millet I, Mishra VS, Padigaru M, Patturajan M;
Pena CEA, Peyman JA, Rastelli L, Rieger DK, Shenoy SG, Shimkets RA,
Smithson G, Starling G, Spytek KA, Stone DJ, Tchernev VT, Twomlow N;
Vernet CAM, Zerhusen BD, Zhong M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                58
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
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84.5%; Score 987; DB 7;

Best Local Similarity 87.7%; Pred. No. 1.2e-88;

Matches 185; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        210
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 1; SEQ ID NO 74; 447pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ā
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2003-441555/41.
N-PSDB; ADE28696.
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AAY95526;

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New soluble prolactin receptors useful as human growth hormone binding protein and in x-ray crystallographic analysis for developing molecular models which define the tertiary structure of the hormone-binding
                          hPRLR; soluble; prolactin receptor; gastrointestinal; splice variant; binding protein; prolactin; growth hormone; agonist; antagonist.
                                                                                                                                                (INRM ) INSERM INST NAT SANTE & RECH MEDICALE.
(ISTF ) ARS APPLIED RES SYSTEMS HOLDING NV.
         Soluble human prolactin receptor clone E.
                                                                                                                                                                                                                                                                       Claim 1; Col 31-32; 26pp; English.
                                                                                                             97US-00806597.
                                                                                                                                96US-0012503P.
                                                                                                                                                                           Kelly PA, Nagano M;
                                                                                                                                                                                              WPI; 2000-464339/40.
N-PSDB; AAA53590.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 134 AA;
                                                                                                            26-FEB-1997;
                                                                                                                               29-FEB-1996;
                                                        Homo sapiens
                                                                                           04-JUL-2000.
                                                                         JS6083714-A.
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Soluble human prolactin receptor (hPRIR) isoforms have been isolated from the human gastrointestinal tract. The isoforms have a deletion in the extra—or intracellular domain and are thought to be generated by alternative splicing, since four clones (A, B, C and E) precisely lack one or two exons. Except for clone C, the deletion in all other clones resulted in a frameshift and produced a stop codon before the transmembrane domain. The soluble hPRIR may be used as a binding protein for human prolactin and/or human growth hormone, which can be used in the prapeutics for the detection and measurement of the binding protein the appendics for binding to human prolactin and/or human growth hormone or entand or inhibit their hormone activities. They may also be used in place of monoclonal antibodies to provide solution-based radioligand receptor assays, in receptor sandwich or enzymatic assays, and in X-ray crystallographic analysis to develop molecular models, which define the tertiary structure of the hormone-binding domains, where such information would provide insight into the structure of the actual contact between a choice of monoclonal in the structure of the actual contact between a choice of monoclonal and the structure of the actual contact between a choice of monoclonal and the structure of the actual contact between a choice of monoclonal and the structure of the actual contact between a choice of monoclonal and the structure of the actual contact between a choice of monoclonal and the structure of the actual contact between a choice of monoclonal and structure of the actual contact between a choice of monoclonal and structure of the actual contact between a choice of monoclonal and structure of the actual contact between a choice of monoclonal and structure of the actual contact between a choice of monoclonal and structure of the actual contact between a choice of monoclonal and structure of the actual contact between the contact between the structure of the actual contact between the contact between the La provide insight into the structure of the actual contact between a mone and its receptor. This structural information would be useful in design of peptides which have prolactin or growth hormone-like 9 1 MKENVASATVFTLLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNY Gaps 4. Query Match 58.2%; Score 679; DB 3; Length 134; Best Local Similarity 96.9%; Pred. No. 5.1e-59; Matches 125; Conservative 0; Mismatches 0; Indels agonistic or antagonistic activity

SLIYHREGETLMHECPDYITGGPNSCHFGKQYTSMWRTYIMMVNAT-QMGSSFSDELYVD 119 61 SLTYHREGETLMHECPDYITGGPNSCHFGKQYTSMWRTYIMMVNATNQMGSSFSDELYVD 120 1 MKENVASATVFTLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNY VTYI---DP 126 120 VTYIVOPDP 128 61 121 g g ò à

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The present sequence is that of a newly identified soluble isoform of the human prolactin receptor (PRLR). DNA encoding this isoform (see AAA4979) lacks exon 6 of the full-length receptor, resulting in a frameshift that produces a stop codon before the transmembrane domain. The putative receptor due to the lack of a Ws motif, but it retains 5 systeine residues that are crucial for ligand binding. 6 lesforms (see AAA49976-82) of human PRLR have been identified in human colonic Caco-2 and human pression are T-470 cells. Recombinant DNA molecules encoding the soluble PRLRs may be used as binding proteins for human prolactin and/or human growth hormone, which can be useful in diagnostics for the detection and measurement of the binding ligand, or in therapeutics for binding to human prolactin and/or human growth hormone to retard or binding to human prolactin and/or human growth hormone activities. They may also be used in place of monoclonal antibodies to provide solution-based radioligand receptor assays, in receptor sandwich or enzymatic assays, and in x-ray crystallographic analysis to develop molecular models that define the tertiary structure of the hormone-binding domains, where such information would provide insight into the structure of the actual contact between a charmone and its receptor. This structure of the actual contact between a charmone and its receptor. This structure of the actual contact between a charmone and its receptor. This structural information would be useful in the design of peptides that have prolactin or growth hormone-like
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New recombinant DNA having a segment encoding a signal peptide joined translationally to a segment encoding a soluble human prolactin receptor useful as a hormone growth hormone binding protein, and in x-ray
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SYSTEMS HOLDING NV.
SANTE & RECH MEDICALE.
                                                                                              Soluble isoform of human prolactin receptor.
                                                                                                                                       Prolactin receptor; PRLR; human; isoform
                                                                                                                                                                                                                                       1. .24
/label= Signal_peptide
                                                                                                                                                                                                                                                                        25. .134
/label= Soluble_PRLR
                                                                                                                                                                                                                  Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 1; Col 32-33; 27pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  96US-0012503P.
97US-00806597.
                                                                                                                                                                                                                                                                                                                                                                                                             97US-00970428.
                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        crystallographic analysis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (ISTF ) ARS APPLIED RES (INRM ) INSERM INST NAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Kelly PA, Nagano M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2000-464346/40.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 134 AA;
                                                                                                                                                                              Homo sapiens,
                                                                                                                                                                                                                                                                                                                                                                                                           14-NOV-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  29-FEB-1996;
                                                           10-OCT-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    26-FEB-1997;
                                                                                                                                                                                                                                                                                                                                 US6083753-A
                                                                                                                                                                                                                                                                                                                                                                    04-JUL-2000
                                                                                                                                                                                                                                   Peptide
                                                                                                                                                                                                                                                                          Protein
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1 MKENVASATVFTLLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNY 

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AAY95526 standard; protein; 134 AA.

RESULT 13 AAY95526 ID AAY95

7

Gaps

4.

Length 134; Indels

Query Match 58.2%; Score 679; DB 3; L. Best Local Similarity 96.9%; Pred. No. 5.1e-59; Matches 125; Conservative 0; Mismatches 0;

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RESULT 15
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                   SLTYHREGETLMHECPDYITGGPNSCHFGKQYTSMWRTYIMWNAT-QMGSSFSDELYVD 119
                               SLIYHREGETLMHECPDYITGGPNSCHFGKQYTSMWRTYIMMYNATNQMGSSFSDELYVD 120
1 MKENVASATVFTLLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNY 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   245. 250
/label= Box 1
/note= "proline-rich region highly conserved among
receptors for cytckines, growth hormones and prolactin
and is critical for signal transduction"
                                                                                                                                                                                                                                                                                                  /...oute "comprises 5 Cys residues"
68. .70
/label= glycosylation_site
/note= "potential"
77. .79
/label= glycosylation_site
/note= "potential"
192. .16
/label= ligand_binding_motif
/note= "conforms to Trp-Ser-Xaa-Trp-Ser consensus"
211. .234
/label= transmembrane
                                                                                                                                                                                                        Fish prolactin; tiPRL; receptor; hormone; agonist; antagonist; reproductive cycle synchronisation; teleost; bony fish; Cypriniformes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             - useful for detecting prolactin agonists and
                                                                                                                                                                                                                                                                                                                                                                                                           /label= transmembrane
235. .606
/label= cytoplasmic
/note= "slightly longer than mammalian PRL receptor
cytoplasmic domain"
                                                                                                                                                                                                                                                       Location/Qualifiers
1. .606
/label= prolactin_receptor
1. .210
/label= extracellular
/note= "comprises 5 Cys residues"
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                                                                                                                                                                                         Tilapia prolactin receptor (mature form)
                                                                                                                             AAR93121 standard; protein; 606 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Fish prolactin receptor
                                                            VIXIVOPDP 128
                                                                          VIYI --- DP 126
                                                                                                                                                                                                                                       niloticus.
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N-PSDB; AAT17141.
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                                                                                                                                                                                                                                        Oreochromis
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                                        61
                                                                              121
                                                                                                                                                  AAR93121
                                                                                                                                                                                                                                                            Key
Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Region
                                                                                                                                                                                                                                                                                                                                                                                                            Domain
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A cDNA sequence coding for a fish prolactin (PRL) receptor was isolated from a Oreochromis niloticus (tilapia) kidney cDNA expression library following screening with radioactive tiPRL. The cDNA insert was found to contain an open reading frame for a 630 amino acid protein. The mature protein (606 amino acids) has estimated mol. wt. 68.2 kDa and isoelectric point 5.33. Transformed eukaryotic cells expressing the PRL receptor are useful for identifying agonists and antagonists of PRL which have potential applications in fish farming, e.g. for synchronising receptor from tilapia
                                                                                                                                                                                                                                                                                                                                                                                   124 RVSWEPPRKADTRSGWITLIYELRVKLEDEESEWENHAAGQQKMFNIFSLRSGGTYLIQV 183
                                                                                                                                                                                                                                                                               64
                                                                                                                                                                                                                                                                      65 FNKNNTLIWSYNITUVATNALGKTYSDPQDIDVVZIVQPHPPEKLEVTVMK-DQGWPFL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Fish prolactin, tiPRL, receptor, hormone, agonist, antagonist, reproductive cycle synchronisation, teleost, bony fish; Cypriniformes.
                                                                                                                                                                                                                                                                                                             88 FGKQYTSMWRTYIMMVNATQ-MGSSFSDELYVDVTYIVQPDPPLELAVEVKQPEDRKPYL
                                                                                                                                                                                                                                                                                                                                                                    147 WIKWSPPTLIDLKTGWFTLLYEIRLKPE-KAAEWEIHFAGOOTEFKILSLHPGOKYLVQV
                                                                                                                                                                                                                                                     28 PGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNYSLTYHREGETLMHECPDYITGGPNSCH
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                                                                                                                                                                                               Length 606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         259. .630
/label= cytoplasmic
/note= "slightly longer than mammalian PRL
cytoplasmic domain"
                                                                                                                                                                                                                          Indels
                                                                                                                                                                                             47.1%; Score 549.5; DB 2; 54.6%; Pred. No. 2.2e-45; ive 26; Mismatches 55;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cys residues"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               25. .630
/label= prolactin_receptor
/s. .34
/label= extracellular
/note= "comprises 5 Cys resi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    235. .258
/label= transmembrane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tilapia prolactin receptor precursor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAR93120 standard; protein; 630 AA.
                                                                                                                                                                                               Query Match
Best Local Similarity 54.61
Matches 101; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        niloticus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    184 RCKPD 188
                                                                                                                                                                                                                                                                                                                                                                                                                             RCKPD 210
                                                                                                                                                                     Sequence 606 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Modified-site
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Oreochromis
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                                                                                                                                                                                                                                                                                                                                                                                                                               206
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A cDNA sequence coding for a fish prolactin (PRL) receptor was isolated from a Orecokromis niloticus (tilapia) kidney cDNA expression library following screening with radioactive tiPRL. The cDNA insert was found to contain an open reading frame for a 630 amino acid protein. The mature protein (606 amino acids) has estimated mol. wt. 68.2 kba and isoelectric point 5.53. Transformed eukaryotic cells expressing the PRL receptor are useful for identifying agonists and antagonists of PRL which have reproductive cycles. The present sequence is that of the precursor for the PRL receptor from tilapia
 receptors for cytokines, growth hormones and prolactin and is critical for signal transduction"
                                                                                                                                                                                                                                                                                                             Fish prolactin receptor - useful for detecting prolactin agonists and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
47.1%; Score 549.5; DB 2; Length 630;
Best Local Similarity 54.6%; Pred. No. 2.3e-45;
Matches 101; Conservative 26; Mismatches 55; Indels 3
                                                                                                                                                                                         (INRM ) INSERM INST NAT SANTE & RECH MEDICALE
                                                                                                                                                                                                                              Prunet P, Sandra O;
                                                                                                                                                                                                                                                                                                                                                                    Example; Page 15-16; 35pp; French
                                                                                                                         94FR-00010535,
                                                                                                                                                          94FR-00010535,
                                                                                                                                                                                                                              Edery M,
                                                                                                                                                                                                                                                             WPI; 1996-153124/16.
N-PSDB; AAT17141.
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RCKPD 210 |||||| RCKPD 212 206 Dp ò à

FGKQYTSMWRTYIMMVNATQ-MGSSFSDELYVDVTYIVQPDPPLELAVEVKQPEDRKPYL 146

89 FWKNYLLIWVSYNITVVATNALGKTYSDPQDIDVVYIVQPHPPEKLEVTVWK-DQGWPFL

29 88

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28 PGKPBIFKCRSPNKETFTCWWRPGTDGGLPTNYSLTYHREGETLMHECPDYITGGPNSCH

147

87 88

Gaps

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Search completed: May 12, 2004, 16:17:27 Job time : 62 secs

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121 TYIVQPDPPLELAVEVKQPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWE 180
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Sequence 40, Appl
Sequence 373, App
Sequence 112, App
Sequence 74, Appl
Sequence 25, Appl
Sequence 26, Appl
Sequence 20, Appl
Sequence 21, Appl
Sequence 27, Appl
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1166
1 MKENVASATVFTLLFELNTC......KILSLHPGQXXLVQVRCKPD 210
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1. /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
2. /cgn2_6/ptodata/1/pubpaa/PCT NEW PUB.pep:*
3: /cgn2_6/ptodata/1/pubpaa/PCT NEW PUB.pep:*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
5: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
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14: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
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13: /cgn2_6/ptodata/1/pubpaa/US108_PUBCOMB.pep:*
14: /cgn2_6/ptodata/1/pubpaa/US108_PUBCOMB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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2 US-10-058-270A-40

4 US-10-10-295-023-373

5 US-10-295-027-112

5 US-10-295-027-144

2 US-10-295-027-744

2 US-10-296-027-21

US-09-880-578-25

US-09-880-578-20

US-09-880-578-21

US-09-880-578-21

US-09-880-578-21

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Maximum Match 100%
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Sequence	Sequence 32. Modulating Somatolactog	
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44448888888888888888888888888888888888	RESULT 1  US-10-029-079-3  Sequence 3, Application U6  Publication No. US20020119  GENERAL INFORMATION:  APPLICANT: Clevenger, Che  PRIOR FILING DATE: 2000-1  PRIOR FILING DATE: 2000-1  NUMBER OF SEQ ID NOS: 4  SOFTWARE: PRT  CRGANISM: Homo Sapien  US-10-029-079-3	12
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61 SLTYHREGETLMHECPDYITGGPNSCHFGKQYTSMWRTYIMMVNAT-QMGSSFSDELYVD 119
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TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and TITLE OF INVENTION: Methods of Screening for Modulators of Cancer FILE REFERENCE: 018501-012500US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 14; Length 622;
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99.5%; Pred. No. 7.7e-105;
tive 0; Mismatches 0;
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APPLICANT: Aziz, Natasha
APPLICANT: Ginsberg, Wendy M.
APPLICANT: Ginsberg, Wert C.
APPLICANT: Glynne, Richard
APPLICANT: Hevezi, Peter A.
APPLICANT: Mack, David H.
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Watson, Susan R.
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CRGANISM: Homo sapiens
US-10-177-293-373
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Best Local Similarity
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US-10-295-027-112
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Sequence 40, Application US/1058270A

Publication No. U520040029114A1

Sequence 40, Application US/1058270A

Publication No. U520040029114A1

APPLICANT: Mack, David H.

APPLICANT: Afat, David H.

APPLICANT: Afat, David H.

APPLICANT: Afat, David H.

APPLICANT: Afat, David G.

TITLE OF INVENTION: Methods of Diagnosis of Breast Cancer.

TITLE OF INVENTION: Methods of Screening for Modulators of Breast Cancer.

TITLE OF INVENTION: Methods of Diagnosis of Screening for Modulators of Breast Cancer.

TITLE OF INVENTION: Methods of Screening for Modulators of Breast Cancer.

TITLE OF INVENTION: Methods of Diagnosis of Screening for Modulators of Breast Cancer.

TITLE OF INVENTION: WHERE: US/10/058,270A

CURRENT APPLICATION NUMBER: US 60/263,965

PRIOR PELING DATE: 2001-01-02-03

PRIOR PELING DATE: 2001-04-09

PRIOR PELING DATE: 2001-04-09

PRIOR PELING DATE: 2001-04-09

PRIOR PELING DATE: 2001-04-09

PRIOR PILING DATE: 2001-04-09

PRIOR PILING DATE: 2001-05-04

PRIOR FILING DATE: 2001-05-04

PRIOR FILING DATE: 2001-05-04

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PRIOR FILING DATE: 2001-05-04

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181 IHFAGQQTEFKILSLHPGGXYLVQVRCKPD 210
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APPLICANT: Glatt, Karen
APPLICANT: APPLICANT: APPLICANT: Gannavarpu, Manjula
APPLICANT: Kamatkar, Shubhangi
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Best Local Similarity 99.5
Matches 210; Conservative
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Wang, Youzhen
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ORGANISM: Homo sapiens
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Xu, Yongyao
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APPLICANT Gish, Kutz C.
APPLICANT Gish, Kutz C.
APPLICANT Gish, Kutz C.
APPLICANT Heavel, Peter A.
APPLICANT Hevezi, Peter A.
APPLICANT Hevezi, Peter A.
APPLICANT Hevezi, Peter A.
APPLICANT Watson, Susan R.
APPLICANT ION: Methods of Diagnosis of Cancer, Compositions and TILLE OF INVENTION: Methods of Screening for Modulators of Cancer FILE REPRENCE: 018501-01250005;
CURRENT APPLICATION NUMBER: US/10/295,027
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 99.1%; Score 1155.5; DB 15; Length 622; Best Local Similarity 99.5%; Pred. No. 7.7e-105; Matches 210; Conservative 0; Mismatches 0; Indels 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  180 EIHFAGOQTEFKILSLHPGQKYLVQVRCKPD 210
CURRENT APPLICATION NUMBER: US/10/295,027
CURRENT FILING DATE: 2002-11-13
PRIOR APPLICATION NUMBER: US 09/663,733
PRIOR PLILING DATE: 2000-09-15
PRIOR PELING DATE: 2001-11-13
PRIOR PELING DATE: 2001-11-15
PRIOR PELING DATE: 2001-11-15
PRIOR PELING DATE: 2001-11-15
PRIOR PELING DATE: 2001-11-29
PRIOR PELING DATE: 2001-08
PRIOR PELING DATE: 2001-08
PRIOR PELING DATE: 2001-09
PRIOR PELING DATE: 2002-01-08
PRIOR PELING DATE: 2002-02-08
PRIOR PELING DATE: 2002-02-08
PRIOR PELING DATE: 2002-02-08
PRIOR PELING DATE: 2002-02-08
PRIOR PELING DATE: 2002-02-13
PRIOR PERIOR PELING DATE: 2002-02-13
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PRIOR APPLICATION NUMBER: US 09/663,733
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 744, Applic
Publication No. US20
GENERAL INFORMATION:
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RESULT 6

US-10-287-971-74

SUBJICATION NO. US20040067882A1

PUBLICATION NO. US20040067882A1

GENERAL INFORMATION:

JAPLICANI ALSODIOOK, et al.

TILE REFERENCE: 21402-480A

CURRENT APPLICATION NUMBER: US/10/287,971

CURRENT RILING DATE: 2002-11-05

PRIOR APPLICATION NUMBER: 09/997,425

PRIOR APPLICATION NUMBER: 09/997,425

PRIOR FILING DATE: 2001-10-22

PRIOR FILING DATE: 2001-10-22

PRIOR FILING DATE: 2001-11-05

PRIOR FILING DATE: 2001-11-05

PRIOR FILING DATE: 2001-11-05

PRIOR PELING DATE: 2001-11-05

PRIOR PELING DATE: 2001-11-05

PRIOR PELING DATE: 2001-11-06

PRIOR APPLICATION NUMBER: 60/333,072

PRIOR PELING DATE: 2001-11-06

PRIOR PELING DATE: 2001-11-06
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               61 SLTYHREGETLMHECPDYITGGPNSCHFGKQYTSM'RFTYIMM'VNATNQMGSSFSDELYVD 120
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PRIOR FILING DATE: 2000-09-15
PRIOR APPLICATION NUMBER: US 60/350,666
PRIOR APPLICATION NUMBER: US 60/335,394
PRIOR FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: US 60/332,464
PRIOR PILING DATE: 2001-11-15
PRIOR PELING DATE: 2001-11-29
PRIOR PILING DATE: 2001-11-29
PRIOR PAPLICATION NUMBER: US 60/34,393
PRIOR APPLICATION NUMBER: US 60/340,376
PRIOR APPLICATION NUMBER: US 60/347,211
PRIOR PILING DATE: 2001-12-14
PRIOR FILING DATE: 2002-01-10
PRIOR PILING DATE: 2002-01-10
PRIOR PILING DATE: 2002-01-10
PRIOR PILING DATE: 2002-01-10
PRIOR PILING DATE: 2002-01-13
PRIOR PILING DATE: 2002-01-13
PRIOR PILING DATE: 2002-01-13
PRIOR PILING DATE: 2002-02-08
PRIOR PILING DATE: 2002-02-13
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99.1%; Score 1155.5; DB 15; Lengt
Best Local Similarity 99.5%; Pred. No. 7.7e-105;
Matches 210; Conservative 0; Mismatches 0; Indels
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US-10-295-027-744
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SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                               120 VTYIVQPDPPLELAVEVKQPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEW 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       96 VTYIVQPDPPLELAVEVKQPEDRKPYLMIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEW 155
                                                                                                                                                                                                                                                                                    1 MKENVASATVFTLLFFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNY 60
                                                                                                                                                                                                                                                                                                                          1 MKENVASATVFTLLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPT-- 58
                                                                                                                                                                                                                                                                                                                                                                                                         59 -------NSCHFGKQXTSMWRTXIMMWNATNQMGSSFSDELYVD 95
                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                26;
                                                                                                                                                                                                     Query Match
84.6%; Score 987; DB 12; Length 597;
Best Local Similarity 87.7%; Pred. No. 2.7e-88;
Matches 185; Conservative 0; Mismatches 0; Indels 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
FILING DATE: 13-Jun-2001
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EIHFAGQQTEFKILSLHPGQKYLVQVRCKPD 186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EIHFAGQQTEFKILSLHPGQKYLVQVRCKPD 210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Lehner, Joyce M.
TITLE OF INVENTION: MAMMALIAN ZCYTORS
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME: Lunn, Paul G
REGISTATION UNBER: 32,743
REFERENCE/DOCKET NUMBER: 96-22
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADDRESSEE: Zymogenetics
STREET: 1201 Eastlake Ave East
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE: «Unknown»
ATTORNEY/AGENT INFORMATION:
PRIOR APPLICATION NUMBER: 60/406,181
PRIOR FILING DATE: 2002-08-26
NUMBER OF SEQ ID NOS: 397
SOFTWARE: CuraSequist version 0.1
SEQ ID NO 74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Presnell, Scott R.
Jelmberg, Anna C.
Gilbert, Teresa
Foster, Donald C.
Adams, Robyn L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 25, Application US/09880578
Patent No. US20020045733A1
GENERAL INFORMATION:
APPLICANT: Lok, Si
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEPHONE: 206-442-6627
TELEFAX: 206-442-6678
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INFORMATION FOR SEQ ID NO: 25:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CITY: Seattle
                                                                                                                  TYPE: PRT
CRGANISM: Homo sapiens
US-10-287-971-74
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                                                                                                      LENGTH:
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86 ILAGSCLYVG-LPPEKPVNISCWSKNMKDLTCRWTPCAHGETFLHTNYSLKYKLRWYGOD 144
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                                                                                                                                                                                                                                                                                                                                                                                        73 HECPDYITGGPNSCHFGKQYTSMWRTYIMMVNAT-QMGSSFSDELYVDVTYIVQPDPPLE
                                                                                                                                                                                                                                                                                          15 LFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGG--LPTNYSLTYHREGETLM
                                                                                                                                                                                                                                             12;
                                                                                                                                                                                                  Length 389;
                                                                                                                                                                                                                                             85; Indels
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MEDIUM TYPE: Diskette
CONFUTER: IBM Compatible
CONFUTER: IBM Compatible
CONFUTER: IBM Compatible
CORRESTING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows. Version 2.0
CURRENT APPLICATION NUMBER: US/09/880,578
FILING DATE: 13-Jun-2001
CLASSIFTCATION NUMBER: VUNKNOWN>
RILING DATE: VUNKNOWN>
FILING DATE: VUNKNOWN>
FILING DATE: VUNKNOWN>
APPLICATION NUMBER: VUNKNOWN>
FILING DATE: VUNKNOWN>
ATTORNEY/AGRY INCORATION:
                                                                                                                                                                                          25.5%; Score 297; DB 9;
38.0%; Pred. No. 1.1e-20;
tive 27; Mismatches 85
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Lehner, Joyce M.
TITLE OF INVENTION: MAMMALIAN ZCYTORS
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
ADDRESSEE: Zymogenetics
STREET: 1201 Eastlake Ave East
                                                                                               MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 25:
US-09-880-578-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REGISTRATION NUMBER: 32,743
REFERENCE/DOCKET NUMBER: 96-22
TELECOMNUNICATION INFORMATION:
TELEPHONE: 206-442-6627
TELEPRAX: 206-442-6678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Presnell, Scott R.
Jelmberg, Anna C.
Gilbert, Teresa
Foster, Donald C.
Adams, Robyn L.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                190 FKILSLHPGQKYLVQVRCKP 209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           259 CRLAGLKPĠTVYFVQVRCNP 278
DENGTH: 389 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 26:
SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                           Query Match
Best Local Similarity 38.0%
....hes 76; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                               132 LAV-EVKQPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWE-IHFAGQQTE 189
                                                                                                                                                                                                                                                                                                                                                                                                                    204 VHVSRVGGLEDQLSVRWV--SPPALKDF---LFQAKYQIRYRVEDSVDWKVVDDVSNQTS 258
                                                                                                                                                                                                                                                                                                                73 HECPDYITGGPNSCHFGKQYTSMWRTYIMMVNAT-QMGSSFSDELYVDVTYIVQPDPPLE 131
                                                                                                                                                                                                                                     15 LFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGG--LPTNYSLTYHREGETLM 72
                                                                                                                                                                                               12;
                                                                                                                                                          Length 389;
                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
                                                                                                                                                                                                 85;
                                                                                                                                                      Query Match 25.5%; Score 297; DB 9; Best Local Similarity 38.0%; Pred. No. 1.1e-20; Matches 76; Conservative 27; Mismatches 85
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APPLICATION NUMBER: US/09/880,578
FILING DATE: 13-Jun-2001
CLASSIFICATION: UNKnown>
PRIOR APPLICATION: UNKnown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: CURKnown>
ATTORNEY/AGENT INFORMATION:
NAME: Lunn, Paul G
REGISTRATION NUMBER: 32,743
REFERENCE/DOCKET NUMBER: 96-22
TELECOMMUNICATION INFORMATION:
TELEFHONE: 206-442-6627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Lehner, Joyce M.
TITLE OF INVENTION: MAMMALIAN ZCYTORS
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
STREET: 1201 Eastlake Ave East
CITY: Seattle
                                                  // TOPOLOGY: linear
// MOLECULE TYPE: protein
// SEQUENCE DESCRIPTION: SEQ ID NO: 26:
US-09-880-578-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Presnell, Scott R.
Jelmberg, Anna C.
Gilbert, Teresa
Foster, Donald C.
Adams, Robyn L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            190 FKILSLHPGQKYLVQVRCKP 209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               259 CRLAGLKPGTVYFVOVRCNP 278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 21, Application US/09880578
Patent No. US20020045733A1
GENERAL INFORMATION:
LENGTH: 389 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGIH: 303 amino acids
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INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY: USA
ZIP: 98102
COMPUTER READABLE FORM:
MEDIUM TYPE: Diske
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145 NICEEYHTVGPHSCHIPKD-LALFTPYEIWVEAINRLGSARSDVLTLDILDUVTTDPPPE 203
                                                                                                                                                                                                                                                                                                                                                                                                                                           LAV-EVKOPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWE-IHFAGOOTE 189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     86 ILAGSCLYVG-LPPEKPVNISCWSKNMKDLTCRWTPGAHGETFLHTNYSLKYKLRWYGQD 144
                                                                                                                                                                                                                                                                                                                                                     73 HECPDYITGGPNSCHFGKOYTSMWRTYIMMVNAT-QMGSSFSDELYVDVTYIVQPDPPLE
                                                                                                                                                                                                                                                           15 LFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGG--LPTNYSLTYHREGETLM
                                                                                                                                                                                                               12;
                                                                                                                                                                 Length 303;
                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDIUM TIRE: DISRELLE
COMPUTER: IEM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
FILING DATE: 13-Jun-2001
CLASSIFICATION: «Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: «Unknown>
FILING DATE: «Unknown>
                                                                                                                                                                 25.4%; Score 296; DB 9; I 38.0%; Pred. No. 1.1e-20; iive 27; Mismatches 85;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Presnell, Scott R.
Jelmberg, Anna C.
Gilbert, Teresa
Foster, Donald C.
Adams, Robyn L.
Lehner, Joyce M.
TITLE OF INVENTION: MAMMALIAN ZCYTORS
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 21:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADDRESSEE: Zymogenetics
STREET: 1201 Eastlake Ave East
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME: Lunn, Paul G
REGISTRATION NUMBER: 32,743
REFERENCE/DOCKET NUMBER: 96-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELECOMMUNICATION INFORMATION
TELEPHONE: 206-442-6627
TELEFAX: 206-442-6678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 20, Application US/09880578
Patent No. US20020045133A1
GENERAL INFORMATION:
APPLICANT: Lok, Si
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       190 FKILSLHPGOKYLVQVRCKP 209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 259 CRLAGLKPĠTVYFVQVRCNP 278
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY: USA
ZIP: 98102
COMPUTER READABLE FORM:
                                                                                                                                             Query Match
Best Local Similarity 38.0%
Best Local Similarity
76, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEX: <Unknown>
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CITY: Seattle STATE: WA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 10
US-09-880-578-20
                                                                                                                       US-09-880-578-21
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TOPOLGGY: linear

MOLECULE TYPE: procein

SEQUENCE DESCRIPTION: SEQ ID NO: 17:
US-09-880-578-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Presnell, Scott R.
Jelmberg, Anna C.
Gilbert, Teresa
Foster, Donald C.
Adams, Robyn L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 13-Jun-2001
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INPORMATION:
TELEPHONE: 206-442-6677
TELEFAX: 206-442-6678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-880-578-27; Sequence 27, Application US/09880578; Patent No. US20020045733A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                      190 FKILSLHPGQKYLVQVRCKP 209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      262 CRLAGLKPGTVÝFVQVRCNP 281
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEX: «Unknown»
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 389 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
                                                                                                                               Best Local Similarity 38.0
Matches 76; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY: linear
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                                                                                                              Query Match
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                                                                                                                                                                                                                                                                                           73 HECPDYITGGPNSCHFGKQYTSMWRTYIMMVNAT-QMGSSFSDELYVDVTYIVQPDPPLE 131
                                                                                                                                                                                                                                                                                                                  132 LAV-EVKQPEDRKPYLWIKWSPPTLIDLKTGWFTLLYBIRLKPEKAAEWE-IHFAGQQTE 189
                                                                                                                                                                                                                                                                                                                                                                                                   15 LFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGG--LPTNYSLTYHREGETLM
                                                                                                                                                                        12;
                                                                                                                             Query Match 25.4%; Score 296; DB 9; Length 385; Best Local Similarity 38.0%; Pred. No. 1.4e-20; Matches 76; Conservative 27; Mismatches 85; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/880,578
FILING DATE: 13-Jun-2001
CLASSIFICATION: «Unknown»
PRIOR APPLICATION DATA:
APPLICATION NUMBER: «Unknown»
FILING DATE: «Unknown»
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Lehner, Joyce M.
TITLE OF INVENTION: MAMMALIAN ZCYTORS
NUMBER OF SEQUENCES: 37
                         TOPOLOGY: linear MOLECULE TYPE: protein SEQUENCE DESCRIPTION: SEQ ID NO: 20: US-09-880-578-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE: Zymogenetics
STREET: 1201 Eastlake Ave East
CITY: Seattle
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REFERENCE/DOCKET NUMBER: 96-22
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Jelmberg, Anna C.
Gilbert, Teresa
Foster, Donald C.
Adams, Robyn L.
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TELEPHONE: 206-442-6627
TELEFAX: 206-442-6678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           259 CRLAGLKPGTVÝFVQVRCNP 278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 17, Application US/09880578
Patent No. US20020045733A1
GENERAL INFORMATION:
APPLICANT: Lok, Si
                                                                                                                                                                                                                                                                                                                                                                                                                                                       PKILSLHPGQKYLVQVRCKP 209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH: 388 amino acids
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COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
          STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEX: <UNKNOWN>
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
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STRANDEDNESS: single
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CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STATE: WA
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                                                                                                                                                                                                                                                                                                                                  207 VHVSRVGGLEDQLSVRWV--SPPALKDF---LFQAKYQIRYRVEDSVDWKVVDDVSNQTS 261
                                                                                                                                                                                                        73 HECPDYITGGPNSCHFGKOYTSMWRTYIMMVNAT-QMGSSFSDELYVDVTYIVQPDPPLE
                                                                                                                                                                                                                                       15 LFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGG--LPTNYSLTYHREGETLM
                                                                                                                                                           89 ILAGSCLYVG-LPPEKPVNISCWSKNMKDLTCRWTPGAHGETFLHTNYSLKYKLRWYGQD
                                                               12;
               Score 296; DB 9; Length 388;
Pred. No. 1.4e-20;
                                                               Indels
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MEDIUM TYPE DISKELTE
COMPUTER: IBM Compatible
COMPOTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FasteSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/880,578
25.4%; Sco...
38.0%; Pred. No. 1...
've 27; Mismatches
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TITLE OF INVENTION: MAMMALIAN ZCYTORS
NUMBER OF SEQUENCES: 37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADDRESSEE: Zymogenetics
STREET: 1201 Eastlake Ave East
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION DATA:
APPLICATION NUMBER: «Unknown>
FILING DATE: «Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Lunn, Paul G
REGISTRATION NUMBER: 32,743
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US-09-880-578-31
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                                                                                                                                                                                                                                                      132 LAV-EVKOPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWE-IHFAGOOTE 189
                                                                                                                                                                                                                                                                                                                            15 LFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGG--LPTNYSLTYHREGETLM 72
                                                                                                              12; Gaps
                                                                            Length 389;
                                                                        Query Match 25.4%; Score 296; DB 9; Length 38: Best Local Similarity 38.0%; Pred. No. 1.4e-20; Matches 76; Conservative 27; Mismatches 85; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IEM Compatible
COMPUTER: IEM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: TSACKING DOS
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/880,578
FILING DATE: 13-Jun-2001
CLASSIFICATION DATA:
APPLICATION DATA:
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Lehner, Joyce M.
TITLE OF INVENTION: MAMMALIAN ZCYTORS
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 27:
US-09-880-578-27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE/DOCKET NUMBER: 96-22 TELECOMMUNICATION INFORMATION: TELEPHONE: 206-442-6627 TELEFAX: 206-442-6678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADDRESSEE: Zymogenetics
STREET: 1201 Eastlake Ave East
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: Lunn, Paul G
REGISTRATION NUMBER: 32,743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Presnell, Scott R.
Jelmberg, Anna C.
Gilbert, Teresa
Foster, Donald C.
Adams, Robyn L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 31, Application US/0980578
Patent No. US20020045733A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                 190 FKILSLHPGQKYLVQVRCKP 209
                                                                                                                                                                                                                                                                                                                                                                                                                 259 CRLAGIKPĠTVŸFVQVRČNP 278
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INFORMATION FOR SEQ ID NO: 31:
SEQUENCE CHARACTERISTICS:
LENGTH: 389 amino acid
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STATE: WA
COUNTRY: USA
ZIP: 98102
COMPUTER READABLE FORM:
MEDIUM TYPE: Disket!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: LOK,
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                                                                                                                                                                                                     86 ILAGSCLYVG-LPPEKPVNISCMSKNMKDLTCRWTPGAHGETFLHTNYSLKYKLRWYGQD 144
                                                                                                                                                                                                                                                                                   132 LAV-EVKOPEDRKPYLMIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWE-IHFAGOOTE 189
                                                                                                                                                                                                                                                       73 HECPDYITGGPNSCHFGKQYTSMWRTYIMMUNAT-QMGSSFSDELYVDVTXIVQPDPPLE 131
                                                                                                                                                        15 LFLNICLINGOLPPGKPEIFKCRSPNKETFICWWRPGTDGG--LPINYSLIYHREGETLM 72
                                                                                                                12;
                                                                 Length 389,
                                                                                                              84; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: IBM Compatible
COMPUTER: IBM Compatible
SOFTWARE: TastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/880,578
FILING DATE: 13-Jun-2001
FLASSIFICATION: <UNKNOWN>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: <Unknown>
                                                                 Query Match 25.4%; Score 296; DB 9; Best Local Similarity 37.5%; Pred. No. 1.4e-20; Matches 75; Conservative 29; Mismatches 84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Jelmberg, Anna C.
Gilbert, Teresa
Foster, Donald C.
Adams, Robyn L.
Lehner, Joyce M.
TITLE OF INVENTION: MAWMALIAN ZCYTORS
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
ADDRESSEE: Zymogenetics
STREET: 1201 Eastlake Ave East
SEQUENCE DESCRIPTION: SEQ ID NO: 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME: Lunn, Paul G
REGISTRATION NUMBER: 32,743
REFERENCE/DOCKET NUMBER: 96-
TELECOMMONICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                259 CRLIGLKPGTVÝFVQVŘCNP 278
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LENGTH: 422 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 2, Application US/09880578
Patent No. US20020045733A1
GENERAL INFORMATION:
APPLICANT: Lok, Si
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Presnell, Scott R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEPHONE: 206-442-6627
TELEFAX: 206-442-6678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: <Unknown> ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ZIP: 98102
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                   190 FKILSLHPGOKYLVQVRCKP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEX: <UNKnown>
INFORMATION FOR SEQ ID NO: 2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CITY: Seattle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY: USA
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                                                                                                                                                                                                                     73 HECPDYITGGPNSCHFGKQYTSMWRTYIMMVNAT-QMGSSFSDELYVDVTYIVQPDPPLE 131
                                                                                                                                                                                                                                             132 LAV-EVKOPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWE-IHFAGOOTE 189
                                                                                                                                                                                                                                                                                                                         15 LFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRRPGTDGG--LPTNYSLTYHREGETLM 72
                                                                                                        12;
                                                             Query Match 25.4%; Score 296; DB 9; Length 422; Best Local Similarity 38.0%; Pred. No. 1.6e-20; Matches 76; Conservative 27; Mismatches 85; Indels
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MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
COMPUTER: IBM Compatible
CORENT SYSTEM: DOS
SOFTWARE: FastSER for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/880,578
FILING DATE: 13-Jun-2001
CLASSIFICATION SATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION PAND:
CLASSIFICATION PAND:
APPLICATION NUMBER: CURNOWN:
APPLICATION NUMBER: SOFTWARD
ATTORNEY AGENT INFORMATION:
NAME: Lunn, Paul G
REGISTRATION UNDER: 96-22
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LEDNEY, JOYCE M.
TITLE OF INVENTION: MAMMALIAN ZCYTORS
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 30:
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-880-578-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE: Zymogenetics
STREET: 1201 Eastlake Ave East
CITY: Scattle
STATE: WA
                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 15
US-09-880-578-30
; Sequence 30, Application US/09880578
; Patent No. US20020045733A1
; GENERAL INFORMATION:
; APPLICANT: Lok, Si
Presnell, Scott R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Presnell, Scott R. Jelmberg, Anna C. Gilbert, Teresa Foster, Donald C. Adams, Robyn L.
                                                                                                                                                                                                                                                                                                                                                                                                         296 CRLAGLKPGTVYFVQVRCNP 315
                                                                                                                                                                                                                                                                                                                                                                          190 FKILSLHPGOKYLVQVRCKP 209
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TYPE: amino acid
STRANDEDNESS: single
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TELEX: <Unknown>
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SEQUENCE CHARACTERISTICS:
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Sequence 23509, A Sequence 22670, A Sequence 22671, A Sequence 22671, A Sequence 3308, A Sequence 3308, A Sequence 373, Application of the sequence 3751, Application of the sequence 24513, Application of the sequence 25830, A Sequence 11633, Sequence 11633, Sequence 11633, Sequence 53830, A Sequence 62081, A Sequenc

Run on:

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for Modulating Somatolactogenic Function
6 US-10-029-079-3

1 US-00-724-676-83309

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2 US-00-724-676-83309

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2 US-00-751-537-27672

3 US-60-452-680-22672

1 US-09-724-676-83308

2 US-00-724-676-8330

2 US-00-724-7112

8 US-10-725-027-744

3 US-08-726-7112

8 US-10-725-027-746

3 US-09-791-537-1829

4 US-09-791-537-18330

5 US-09-791-537-119332

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GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Clevenger, Charles V
TITLE OF INVENTION: Composition and Method for
FILE REFERENCE: PENN'-0795
CURRENT PILING DATE: 2001-12-21
PRIOR APPLICATION NUMBER: 60/258,285
PRIOR APPLICATION NUMBER: 60/258,285
PRIOR FILING DATE: 2000-12-22
SOFTWARE: PATENT PLING DATE: 2000-12-22
SOFTWARE: PATENT PLING DATE: 2000-13-21
SEQ ID NOS: 4
SOFTWARE: PATENTIN VERSION 3.1
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, ORGANISM: Homo sapien
US-10-029-079-3
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1 MKENVASATVFTLLFLNTC......KILSLHPGQKYLVQVRCKPD 210
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                                     GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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Maximum Match 100%
Listing first 45 summaries
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Perfect score:
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                                                       SLIYHREGETLMHECPDYIIGGPNSCHFGKQYISMWRTYIMMVNAIQMGSSFSDELYVDV 120
                                                                        SLTYHREGETLMHECPDYIIGGPNSCHFGKQYTSMWRTYIMMVNAIQMGSSFSDELYVDV 120
                                                                                                              TYIVQPDPPLELAVEVKQPEDRKPYLWIKWSPPTLIDLKTGWFTLLYBIRLKPEKAAEWE 180
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               1 MKENVASATVFTLLFLFLNTCLLNGQLPPGKPE1 FYCRSPNKETFTCWWRPGTDGGLPTNY
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GENERAL INFORMATION:
APPLICANT: Compugen LTD:
TITLE OF INVENTION:
CURRENT APPLICATION UNDERS: US/09/724,676A
CURRENT PALIGATION UNDERS: US/09/724,676A
CURRENT FILING DATE: 2000-11-28
NUMBER OF SEQ ID NOS: 97222,
SEQ ID NO 83309
LENGTH: 230
                                                                                                                                                                                                                                                                                                   APPLICANT: Compugen LTD
TITLE OF INVENTION: Variants of alternative splicing
FILE REFERENCE: 129181.4 Compugen
CURRENT APPLICATION NUMBER: US/09/724,676
CURRENT FILING DATE: 2000-11-28
NUMBER OF SEQ ID NOS: 97222
SOFTWARE: PatentIn version 3.2
SEQ ID NO 83309
LENGTH: 230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99.1%; Score 1155.5; DB 2
99.5%; Pred. No. 5.7e-117;
tive 0; Mismatches 0;
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US-09-724-676-83309
; Sequence 83309, Application US/09724676
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 99.5'
Matches 210; Conservative
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CORGANISM: Homo sapiens
US-09-724-676A-83309
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US-09-724-676A-83309
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ORGANISM: Homo
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Sequence 37838, Application US/09791537
GENERAL INFORMATION:
APPLICANT: Belonomix, Inc.
APPLICANT: Debe, Derek
TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBE
TITLE OF INVENTION: METHODS OF USE THEREOF
TITLE OF INVENTION: METHODS OF USE THEREOF
TITLE OF INVENTION: WETHODS OF USE THEREOF
TITLE OF INVENTION: WETHODS OF USE THEREOF
CURRENT PELLOGATION NUMBER: US/09/791,537
CURRENT FILING DATE: 2001-02-22
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APPLICANT: CRRGILL,
APPLICANT: GRUDE, Andrew
ITLLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
TITLE OF INVENTION: ALZHEIMER'S DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001450
CURRENT APPLICATION NUMBER: US/60/452,680
CURRENT FILING DATE: 2003-03-07
NUMBER OF SEQ ID NOS: 116213
SOFTWARENT FILING DATE: Andrews Version 4.0
SEQ ID NO 22670
LENGTH: 288
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                                                                                                                                                                1 MKENVASATVFTLLFLNTCLLNGQLPPGKPEJFKCRSPNKETFTCWWRPGTDGGLPTNY
                                                                                                                1 MKENVASATVFTLLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNY
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                                                           Gaps
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     DB 21; Length 230;
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Score 1155.5; DB 2:
Pred. No. 5.7e-117;
0; Mismatches 0;
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99.1%; Score 1155.5; DB 3:
Best Local Similarity 99.5%; Pred. No. 7.7e-117;
Matches 210; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       180 EIHFAGQQTEFKILSLHPGQKYLVQVRCKPD 210
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99.5%;
                                                        Conservative
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CRGANISM: Homo sapiens
US-60-452-680-22670
Query Match
Best Local Similarity
Matches 210; Conserv
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US-09-791-537-37838
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EIHFAGQQTEFKILSLHPGQKYLVQVRCKPD 210
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CORGANISM: Homo sapiens
US-09-724-676-83308
                                                                                                                                                                    TYPE: PRT
CORGANISM: Homo sapiens
US-60-452-680-22671
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Sequence 22672, Application US/60452680
Sequence 22672, Application US/60452680
Sequence 22672, Application US/60452680
Sequence 22672, Application US/60452680
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
TITLE OF INVENTION: ALLEHEMER'S DISEASE, METHODS OF DETECTION AND USES THEREOF
TITLE OF INVENTION ALLEHEMER'S DISEASE, METHODS OF DETECTION AND USES THEREOF
CURRENT FILING DATE: 2003-03-07
NUMBER OF SEQ ID NOS: 116213
SOFTWARE FEASESE for Windows Version 4.0
LENGTH: 349
LENGTH: 349
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                                                                                                                          Length 349;
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                                                                                                                       Query Match 99.1%; Score 1155.5; DB 22; Lengt
Best Local Similarity 99.5%; Pred. No. 1e-116;
Matches 210; Conservative 0; Mismatches 0; Indels
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4.8-60-452-680-22671
7.8-equence 22671, Application US/60452680
7.9 GENERAL INFORMATION:
NUMBER OF SEQ ID NOS: 153055
SOFTWARE: Patentin version 3.0
SEQ ID NO 37838
LENGTH: 349
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ORGANISM: Homo sapiens
US-60-452-680-22672
                                                            TYPE: PRT
OKGANISM: Homo sapiens
US-09-791-537-37838
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APPLICANT: CARGILL, Michele
APPLICANT: GRUPE, Andrew
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
TITLE OF INVENTION: ALZHEIMER'S DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REPERBERS: CLOO146.
CURRENT APPLICATION WUMBER: US/60/452,680
CURRENT FILING DATE: 2003-03-07
NUMBER OF SEQ ID NOS: 116213
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 22671
LENGTH: 376 179 SLIYHREGETLMHECPDXIIGGPNSCHFGKQYTSMWRIYIMMVNAI-QMGSSFSDELYVD, 119 61 SLTYHREGETLMHECPDYITGGPNSCHFGKQYTSKMRTYIMMYNATNQMGSSFSDELYVD 120 61 SLIYHREGETLMHECPDYITGGPNSCHFGKQYTSMWRTYIMMVNAT-QMGSSFSDELXVD 119 61 SLIYHREGETLMHECPDXITGGPNSCHFGKQYTSWWRTYIMWYNAINQMGSSFSDELYVD 120 120 VTYIVQPPPPLELAVEVKQPEDRKPYLWIKWSPPTLIDLKTGWFTLLYBIRLKPEKAAEW 179 9 120 VTYIVQPDPPLELAVEVKQPEDRKPYLWIKWSPPTLIDLKTGWFTLLVEIRLKPEXAAEW 1 MKENVASATVFTLLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNY 1; 1; Length 426; Length 376; Query Match
99.1%; Score 1155.5; DB 21; Lengt.
Best Local Similarity 99.5%; Pred. No. 1.3e-116;
Matches 210; Conservative 0; Mismatches 0; Indels Query Match

99.1%; Score 1155.5; DB 33; Lengt
Best Local Similarity 99.5%; Pred. No. 1.1e-116;
Matches 210; Conservative 0; Mismatches 0; Indels RESULT 8

US-09-724-676-83308

US-09-724-676-83308

Sequence 83308, Application US/09724676

GENERAL INFORMATION:
APPLICANT: Compangen LTD:
TILE OF INVENTION: Variants of alternative splicing;
FILE REFERENCE: 129181.4 Compangen;
CURRENT APPLICATION NUMBER: US/09/724,676

CURRENT FILING DATE: 2000-11-28

NUMBER OF SEQ ID NOS: 97222

SEQ ID NO 83308

LENGTH: 426

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TYPE: PRT
CRGANISM: Homo sapiens
PCT-US01-49049A-3
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PCT-US02-19669-373
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99.1%; Score 1155.5; DB 21; Length 426;
Best Local Similarity 99.5%; Pred. No. 1.3e-116;
Matches 210; Conservative 0; Mismatches 0; Indels 1;
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                                Sequence 83308, Application US/09724676A

GENERAL INFORMATION:

APPLICANT: Compagen LTD

TITLE OF INVENTION:

FILE REFERENCE: 129181.4 Compagen

CURRENT APPLICANTION NUMBER: US/09/724,676A

CURRENT FILING DATE: 2000-11-28

NUMBER OF SEQ ID NOS: 97222

SEQ ID NO 83308

LENGTH: 426

LENGTH: 426
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GENERAL INFORMATION:
APPLICANT: Genaissance Pharmaceuticals, Inc.
APPLICANT: Bagelecki, Karyn M
APPLICANT: Bagelecki, Karyn M
APPLICANT: Duda, Amy
APPLICANT: Beena
TITLE OF INVENTION: HAPLOTYPES OF THE PRIK GENE
TITLE REFERENCE: PRIK MWH-0892PCT
CURRENT APPLICATION NUMBER: PCT/US01/49049
CURRENT FILING DATE: 2001-12-18
PRICR APPLICATION NUMBER: 60/256,523
PRICR APPLICATION NUMBER: 60/256,523
PRICR PILING DATE: 2000-12-18
NUMBER: PATENTING DATE: 2000-12-18
SOFTWARE: PATENTIN VERSION 3.1
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Best Local Similarity 99.5%;
Matches 210; Conservative (
                                                                                                                                                                                                                                                    ; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-724-676A-83308
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RESULT 9
US-09-724-676A-83308
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PCT-US01-49049-3
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LENGTH: 622
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Sequence 373, Application PC/TUS0219669
(GENERAL INFORMATION:
TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT,
TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT,
TITLE OF INVENTION: PREVENTION, AND THERAPY OF BREAST CANCER
FILE REFERENCE: MIN. 0.38 PC 202-06-9
CURRENT TAILNG DATE: 2002-06-21
PRIOR FILING DATE: 2001-06-27
PRIOR FILING DATE: 2001-06-25
PRIOR FILING DATE: 2001-09-25
PRIOR FILING DATE: 2002-03-05
PRIOR FILING DATE: 2002-03-05
PRIOR FILING DATE: 2002-03-05
61 SLIYHREGETLMHECPDYITGGPNSCHFGKQYTSMWRTYIMMVNAT-QMGSSFSDELYVD 119
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Pred. No. 2.2e-116;
0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Genaissance Pharmaceuticals, Inc.
APPLICANT: Bieglecki, Karyn M
APPLICANT: Duda, Amy
APPLICANT: Koshy, Beena
TITLE OF INVENTION: HAPLOTYPES OF THE PRLR GENE
FILE REFRENCE: PRLR MWH-0892PCT;
CURRENT APPLICATION NUMBER: PCT/USO1/49049A
CURRENT FILING DATE: 2001-12-18
PRIOR APPLICATION NUMBER: 60/256,523
PRIOR APPLICATION NUMBER: 60/256,523
PRIOR APPLICATION NUMBER: 60/256,523
PRIOR PAPLICATION NUMBER: 2001-12-18
SOFTWARE: PLING DATE: 2000-12-18
SOFTWARE: PLING DATE: 2000-13-18
SEQ ID NOS: 39-12-18
IENGTH: 622
                                                                                                                                180 EIHFAGQQTEFKILSLHPGQKYLVQVRCKPD 210
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                                                                                                                                                                                                                                                                                                                                                         Sequence 3, Application PC/TUS0149049A GENERAL INFORMATION:
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Best Local Similarity 99.5%;
Matches 210; Conservative
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Sequence 18829, Application US/09791537
GENERAL INFORMATION:
Sequence 18829
GENERAL INFORMATION:
APPLICANT: Bionomix, Inc.
APPLICANT: Debc.
APPLICANT: AND APPLICANTON UNMBER: US/09/791,537
CURRENT PILING DATE: 2001-02-22
NUMBER OF SEQ ID NOS: 153055
SEQ ID NO 18829
LENGTH: 622
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-03-1.704-40

US-10-03-1.704-40

Sequence 40, Application US/10058270A

GENERAL INFORMATION:
APPLICANT: Mack, David H.
APPLICANT: Afar, David H.
APPLICANT: Afar, Daniel
TITLE OF INVENTION: Methods of Diagnosis of Breast Cancer,
TITLE OF INVENTION: Methods of Screening for Modulators of Breast Cancer,
TITLE OF INVENTION: Methods of Screening for Modulators of Breast Cancer,
TITLE OF INVENTION: Methods of Screening for Modulators of Breast Cancer,
TITLE OF INVENTION: Methods of Screening for Modulators of Breast Cancer,
TITLE OF INVENTION: Mothods: 2002-01-24

FRIOR FILING DATE: 2001-01-24

PRIOR PELICATION NUMBER: US 60/265,928

PRIOR FILING DATE: 2001-01-24

PRIOR FILING DATE: 2001-04-09

PRIOR FILING DATE: 2001-04-09

PRIOR FILING DATE: 2001-04-09

PRIOR PLICATION NUMBER: US 60/288,590

PRIOR FILING DATE: 2001-04-09

PRIOR FILING DATE: 2001-05-04

PRIOR PLICATION NUMBER: US 60/288,590
120 VTYIVQPDPPLELAVEVKQPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEW 179
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         180 EIHFAGQQTEFKILSLHPGQKYLVQVRCKPD 210
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                                                                                  180 EIHFAGOOTEFKILSLHPGOKYLVOVRCKPD 210
                                                                                                                  EIHFAGQQTEFKILSLHPGQKYLVQVRCKPD
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ORGANISM: Homo sapiens
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US-10-058-270A-40
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APPLICANT: Milennium Pharmaceuticals, Inc. et al.

TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT,
ITLLE OF INVENTION: PRESENTION, AND THERAPY OF BREAST CANCER
FILE REPERBNCE: MRI-038PC
CURRENT FILING DATE: 2001-06-21
FRICR APPLICATION NUMBER: US 60/299,887
FRICR FILING DATE: 2001-06-21
FRICR PLING DATE: 2001-06-27
FRICR PRICR TILING DATE: 2001-06-27
FRICR PRICR PLING DATE: 2001-06-27
FRICR PLING DATE: 2001-06-27
FRICR PRICR APPLICATION NUMBER: US 60/306,501
FRICR FILING DATE: 2001-09-25
FRICR FILING DATE: 2001-09-25
FRICR FILING DATE: 2001-09-25
FRICR FILING DATE: 2002-09-05
FRICR FILING DATE: 2002-09-05
FRICR FILING DATE: 2002-09-05
FRICR FILING DATE: 2002-05-14
NUMBER OF SEQ ID NOS: 506
SOFTWARE: FRASER FRASER FOR WINDGOWS VERSION 4.0
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                                                                                                                                                                                                                                           DB 1;
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99.1%; Score 1155.5; DB 1;
Best Local Similarity 99.5%; Pred. No. 2.2e-116;
Matches 210; Conservative 0; Mismatches 0;
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          PRIOR FILING DATE: 2002-05-14
NUMBER OF SEQ ID NOS: 506
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 373, Application FC/TUS0219669A GENERAL INFORMATION:
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Best Local Similarity 99.5%;
Matches 210; Conservative C
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; ORGANISM: Homo sapiens
PCT-US02-19669A-373
                                                                                                                                        TYPE: PRT
CRGANISM: Homo sapiens
PCT-US02-19669-373
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PCT-US02-19669A-373
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) PRIOR FILING DATE: 2001-05-29
; NUMBER OF SEQ ID NOS: 141
; SEQ ID NO 40
; LENGTH: 622
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-058-270A-40

QUEFY MAtch
Best Local Similarity 99.5%; Pred. No. 2.2e-116;
Matches 210; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
MENVASATVFTLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWNRPGTDGGLPTNY 60

QY | MKENVASATVFTLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWNRPGTDGGLPTNY 60

Db | SLTYHREGETLWHECPDYITGGPNSCHFRQYTSWMRTYIMMYNAT-OMGSSFSDELYVD 119

Db | SLTYHREGETLWHECPDYITGGPNSCHFRQYTSWMRTYIMMYNAT-OMGSSFSDELYVD 119

Db | SLTYHREGETLWHECPDYITGGPNSCHFRQYTSWMRTYIMMYNATNOWGSSFSDELYVD 119

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Db | SLTYHREGETLWHECPDYITGGPNSCHFRQYTSWMRTYIMMYNATNOWGSSFSDELYVD 119

Db | SLTYHREGETLWHECPDYITGGPNSCHFRQYTSWMRTYIMMYNATNOWGSSFSDELYVD 119

DD | SLTYHREGETLWHECPDYITGGPNSCHFRANTNOWGSSFSDELYVD 119

DD | SLTYHREGETLWHEUN 119

DD | SLT
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Search completed: May 12, 2004, 16:23:19 Job time : 184 secs

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Thu May 13 08:55:53 2004
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TYPE: PRT
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Sequence 4, Appli
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Sequence 117, Appli
Sequence 127, Appli
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Sequence 137, Appli
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Sequence 137, Appli
Sequence 137, Appli
Sequence 137, Appli
Sequence 137, Appli
Sequence 127, Appli
Sequence 137, Appli
Sequence 137, Appli
                                                                                May 12, 2004, 16:18:01; Search time 20 Seconds (without alignments) 365.723 Million cell updates/sec
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                                                                                                                                     US-10-029-079-3
1166
1 MKENVASATVFTLLLFLNTC.......KILSLHPGGKYLVQVRCKPD 210
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2: /cgn2_6/ptodata/1/paa/USO6_NEW_COMB.pep:*

4: /cgn2_6/ptodata/1/paa/USO7_NEW_COMB.pep:*

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7: /cgn2_6/ptodata/1/paa/USO8_NEW_COMB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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US-10-821-801-794
US-09-738-801-72
US-10-778-002-13
US-10-603-151-2
US-10-806-655-4
US-10-806-655-3
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US-10-67-295-35
US-10-67-299-3
US-10-779-890-11
US-10-779-890-11
US-10-779-890-11
US-10-779-890-11
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SUMMARIES
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Maximum Match 100%
Listing first 45 summaries
                                                      OM protein - protein search, using sw model
                                                                                                                                                                                              BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                             length: 0
length: 2000000000
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Match Length DB
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Maximum DB seq
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No.
                                                                                   Run on:
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Sequence 46, Appli
Sequence 2, Appli
Sequence 4, Appli
Sequence 580, App
Sequence 93, Appl
Sequence 91, Appl
Sequence 412, Appl
Sequence 412, Appl
Sequence 412, Appl
Sequence 4, Appli
Sequence 4, Appli
Sequence 4, Appli
Sequence 6, Appli
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Sequence
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       Sequence
US-10-772-531-22
US-10-772-531-18
US-10-772-531-2
US-10-772-531-2
US-10-772-531-2
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US-10-778-002-12
i Sequence 12, Application US/10778002
j GENERAL INFORMATION:
j APPLICANT: Oppmann, Birgit
j APPLICANT: Tinans, Jacqueline C.
j APPLICANT: Rastelein, Robert A.
j APPLICANT: Bazan, J. Fernando
j TITLE OF INVENTION: Mammalian Cytokines; Related Reagents and Methods
j TILE OF INVENTION: Mammalian Cytokines; Related Reagents and Methods
j TILE REPERENCE: DX09935K
j CURRENT APPLICATION NUMBER: US/10/778,002
j CURRENT FILING DATE: 2004-02-11
j PRIOR PILING DATE: 2004-03-09
j NUMBER OF SEQ ID NOS: 13
j SOFTWARE: PatentIn Ver. 2.0
j SEQ ID NO 12
j EMICTAL A10
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Best Local Similarity 37.59
Matches 75, Conservative
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RESULT 2
US-10-821-801-794
; Sequence 794, Application US/10821801
; GENERAL INFORMATION:
; APPLICANT: Hinzmann, Bernd
; APPLICANT: Rosenthal, Andre

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; ORGANISM: rodent
US-10-778-002-13
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            182 NTCEEYHTVGPHSCHIPKD-LALFTPYEIWVEATNRLGSARSDVLTLDILDVVTTDPPPD 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                132 LAV-EVKOPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWE-IHFAGOOTE 189
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Masiakowski, Piotr
TITLE OF INVENTION: Novel Orphan Receptors
FILE REFERENCE: REG 630
CURRENT APPLICATION NUMBER: US/09/736,842
CURRENT FILING DATE: 2000-12-14
PRIOR FILING DATE: 2000-12-14
PRIOR FILING DATE: 1998-07-22
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/012,072
PRIOR FILING DATE: BARLIER FILING DATE: 1998-01-22
NUMBER OF SEQ ID NOS: 6
SOFTWARRE: Patentin Ver. 2.0
SEQ ID NO 5
LENGTH: 405
                                                                          APPLICANT: Staub, Elke
APPLICANT: Staub, Elke
APPLICANT: Ropice, Stefan
APPLICANT: Ropice, Stefan
APPLICANT: Ropice, Detlev
APPLICANT: Mannearn, Henrik
APPLICANT: Minamean, Henrik
APPLICANT: Li, Xinzhong
TITLE OF INVENTION: Human nucleic acid sequences from lung tumours
FILE REFERENCE: 00154/002001
CURRENT APPLICANTION NUMBER: US/10/821,801
CURRENT APPLICANTION NUMBER: DE 103
PRIOR APPLICANTION NUMBER: DE 103
FILE REFERENCE: 2003-04-09
NUMBER OF SEQ ID NOS: 990
SOFTWARE: Patentin version 3.2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        25.1%; Score 293; DB 6; Length 422; 37.5%; Pred. No. 3.6e-20; Live 28; Mismatches 85; Indels
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                                          Pilarsky, Christian
Brummendorf, Thomas
Hermann, Klaus
Heiden, Esmeralda
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Local Similarity 37.59
Matches 75; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
ORGANISM: Homo Sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: MOUSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-821-801-794
                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 422
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US-09-736-842-2
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Best Local S
Matches 76
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                                   73 HECPDYITGGPNSCHFGKQYTSMWRTYIMMVNAT-QMGSSFSDELYVDVTYIVQPDPPLE 131
                                                                                                          132 LAV-EVKOPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWE-IHFAGQOTE 189
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| Sequence 13. Application US/10778002
| GENERAL INFORMATION:
| APPLICANT: Timents, Jacqueline C. | APPLICANT: Timents, Jacqueline C. | APPLICANT: Rastelein, Robert A. | APPLICANT: Rastelein, Robert A. | APPLICANT: Bazan, J. Fernando | TITLE OF INVENTION: Mammalian Cytokines; Related Reagents and Methods | TILE REFERENCE: DX0936K | CURRENT APPLICATION NUMBER: US/10/778,002 | CURRENT FILING DATE: 2004-02-11 | PRIOR APPLICATION NUMBER: US/09/521,335 | PRIOR FILING DATE: 2000-03-09 | NUMBER OF SEQ ID NOS: 13 | SOFTWARE: PatentIn Ver. 2.0 | SEQ ID NO 13 | LENGTH: 407 | LENGTH: 407 | LENGTH: 407 | LENGTH: A07
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US-10-603-151-2
Sequence 2, Application US/10603151
Sequence 2, Application US/10603151
Sequence 2, Application US/10603151
JILLO ED INVENTION:
TITLE OF INVENTION: Methods Related Thereto
TITLE OF INVENTION: Methods Related Thereto
FILE REFERENCE: R-34
CURRENT APPLICATION NUMBER: US/10/603,151
CURRENT FILING DATE: 2003-06-24
PRIOR APPLICATION NUMBER: US 60/391,170
PRIOR FILING DATE: 2002-06-24
NUMBER OF SEQ ID NOS: 4
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 2
LENGTH: 425
TYPE: PRI
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                                                                                                                                                                                                                    190 FKILSLHPGQKYLVQVRCKP 209
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Best Local Similarity 38.0%,
Best Local Similarity 38.0%,
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CURRENT APPLICATION NUMBER: US/09/736,842
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                                                                                                                                                                                                                                                                                                                244 VHVSRVGGLEDQLSVRMV--SPPALKDF---LFQAKYQIRYRVEDSVDMKVVDDVSNQTS 298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  109 ILAGSCLYVG-LPPEKPVNISCWSKNMKDLTCRWTPGAHGETFLHTNYSLKYKLRWYGQD 167
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                                                                                                                                                                    126 ilagsclyvg-lèpekèrniscwsrnmkdifcrwipdahgetfihtnyslkyklrwyggd 184
                                                                                                                                                                                                                 73 HECPDYITGGPNSCHFGKQYTSMWRTYIMMVNAT-QMGSSFSDELYVDVTYIVQPDPPLE 131
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                                                                                                                                   15 LFINICILNGQLPPGKPEIFKCRSPNKETFICWWRPGTDGG--LPTNYSLTYHREGETLM 72
                                                                                                Gaps
                                                                                                12;
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TITLE OF INVENTION: Novel Orphan Receptors
TITLE OF INVENTION: Novel Orphan Receptors
FILE REFERENCE: REG 630
CURRENT APPLICATION NUMBER: US/09/120,601
PRIOR PELLING DATE: 2000-12-14
PRIOR FILING DATE: 1998-07-22
PRIOR FILING DATE: EARLIER APPLICATION NUMBER: 09/012,072
PRIOR FILING DATE: EARLIER FILING DATE: 1998-01-22
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PATENTIN Ver. 2.0
SEQ ID NO 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HECPDYITGGPNSCHFGKQYTSMWRTYIMMWAT-QMGSSFSDELYVDVT--
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                                                         Length 425;
                                                                                                85; Indels
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                                                           Query Match 25.0%; Score 292; DB 6; Best Local Similarity 38.0%; Pred. No. 4.6e-20; Matches 76; Conservative 27; Mismatches 85
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TITLE OF INVENTION: Novel Orphan Receptors
FILE REFERENCE: REG 630
                                                                                                                                                                                                                                                                                                                                                                          190 FKILSLHPGQKYLVQVRCKP 209
                                                                                                                                                                                                                                                                                                                                                                                                             299 CRLAGLKPGTVYFVQVRCNP 318
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5-09-136-842-4
Sequence 4, Application US/09736842
GENERAL INFORMATION:
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Best Local Similarity 33.0.
Best Local 75; Conservative
    ; ORGANISM: Mus musculus US-10-603-151-2
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84 NSCHFGKQYTSMWRTYIMMVNATQMGSSFSDELYVDVTYIVQPDPPLELAVEVKQPEDRK 143
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241 PATPGLSLLVRGKVVTTDPPPPDVHVSRVGGLEDQLSVRWV--SPPALKDF---LFQAKYQ 295
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CURRENT FILING DATE: 2000-12-14
PRIOR APPLICATION NUMBER: US/09/120,601
PRIOR FILING DATE: 1998-00-22 PRIOR PLILNG DATE: 1998-01-22
PRIOR FILING DATE: EARLIER FILING DATE: 1998-01-22
NUMBER OF SEQ ID NOS: 6
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 6
                                                                                                                                                                                                                                                                                                                                                             Length 448;
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Sequence 4, Application US/10806655

Sequence 4, Application US/10806655

GENERAL INFORMATION.

APPLICANT: Sundstrom. Michael

APPLICANT: Sundstrom. Michael

TITLE OF INVENTION. Modified Cytokine Receptor Protein

TITLE OF INVENTION. Modified Cytokine Receptor Protein

TITLE OF INVENTION NUMBER: US/10/806,655

CURRENT APPLICATION NUMBER: US/35564

PRIOR APPLICATION NUMBER: US/35564

PRIOR APPLICATION NUMBER: SC7/SE38/00277

PRIOR FILING DATE: 1999-10-08

PRIOR FILING DATE: 1999-0-17

PRIOR FILING DATE: 1999-0-17

NUMBER OF SEQ ID NOS: 4

SOFTWARE: Patentin Version 3.2

LEAGURD 0. 4
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                                                                                                                                                                                                                                                                                                                                                             Score 273; DB 5;
Pred. No. 3.1e-18;
                                                                                                                                                                                                                                                                                                                                                                Query Match 23.4%; Score 273; DB Best Local Similarity 33.8%; Pred. No. 3.1e-Matches 75; Conservative 28; Mismatches
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ORGANISM: Homo sapiens
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Best Local Similarity
Matches 62; Conserv
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                                                                                                                                                                                                                                                                                   ; ORGANISM: HUMAN
US-09-736-842-6
                                                                                                                                                                                                                               LENGTH: 448
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; ORGANISM: Homo sapiens
US-10-806-655-2
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                                                                                           Query Match
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Matches 6
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                                                                                                                                                                                                                                           Sequence 3, Application US/10806655; GENERAL INFORMATION:
APPLICANT: Sundstrom, Michael
APPLICANT: Sundstrom, Michael
TITLE OF INVENTION: Modified Cytokine Receptor Protein
FILE REFERENCE: 31611-8A
CURRENT APPLICATION NUMBER: US/10/806,655
CURRENT FILING DATE: 2004-03-23
FRIOR FILING DATE: 1999-10-08
FRIOR FILING DATE: 1997-02-18
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APPLICANT: Sunderrom, Michael
APPLICANT: Sunderrom, Michael
APPLICANT: Sunderrom, Michael
APPLICANT: Sunderrom, Modified Cytokine Receptor Protein
TITLE OF INVENTION: Modified Cytokine Receptor Protein
FILE REPRENCE: 3161-8A
CURRENT APPLICATION NUMBER: US/10/806,655
CURRENT APPLICATION NUMBER: US 09/35564
PRIOR APPLICATION NUMBER: US 09/35564
PRIOR FILING DATE: 1999-10-08
PRIOR FILING DATE: 1999-02-17
PRIOR APPLICATION NUMBER: SE 9700566 4
PRIOR FILING DATE: 1998-02-17
PRIOR APPLICATION NUMBER: SE 9700566 4
PRIOR FILING DATE: 1998-02-18
NUMBER OF SEQ ID NOS: 4
SOFTWARE: PATENTIN Version 3.2
LENGTH: 206
TYPE: PRI
                                                                                           SVPVYSLKVDKEYEVRVRSK 202
                                                       189 EFKILSLHPGQKYLVQVRCK 208
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ORGANISM: Homo sapiens
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                                                          Gaps
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                                                          37;
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  Length 206;
                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 1, Application US/10806655

GENERAL INFORMATION:
APPLICANT: Sundatrom, Michael
APPLICANT: Norstedt, Gunnar
TITE OF INVENTION: Modified Cytokine Receptor Protein
FILE REFERENCE: 316.1-8A
CURRENY FILING DATE: 2004-03-23
FRIOR FILING DATE: 1999-10-08
PRIOR FILING DATE: 1999-10-08
PRIOR FILING DATE: 1999-10-08
PRIOR FILING DATE: 1999-0-17
PRIOR FILING DATE: 1999-0-17
PRIOR FILING DATE: 1999-0-17
PRIOR FILING DATE: 1999-0-17
SPRIOR FILING DATE: 1997-02-18
NUMBER OF SEQ ID NOS: 4
SOFTWARE: Patentin Version 3.2
1 22.5%; Score 262.5; DB 6; Similarity 31.0%; Pred. No. 1.2e-17; Conservative 28; Mismatches 73;
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PCT-19804-02188-142
; Sequence 142, Application PC/TUS0402188
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                          189 EFKILSLHPGQKYLVQVRCK 208
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183 SVPVYSLKVDKEYEVRVRSK 202
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APPLICANT: SCHNEIDER, ARMIN
APPLICANT: SCHABELTZ, WOLF-RUEDIGER
APPLICANT: SCHABELTZ, WOLF-RUEDIGER
APPLICANT: SCHABE, RAINER
APPLICANT: SCHWAB, STEPAN
TITLE OF INVENTION: METHODS OF TREATING NEUROLOGICAL CONDITIONS WITH HEMATOPOEITIC G
TITLE OF INVENTION: FACTORS
FILE REPERENCE: 229530US
FILE REPERENCE: 229530US
CURRENT APPLICATION NUMBER: US/10/659, 295
CURRENT FILING DATE: 2003-09-11
PRIOR APPLICATION NUMBER: US/10/331, 755
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                                 157 ---WTLLNVSLTGIHADIQVRWEAPRNADIQKGWMVLEYELQYKEVNETKWROMDPILTT 213
-IKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWEIHFAGOOT 188
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                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Strub, Eike
APPLICANT: Staub, Eike
APPLICANT: Staub, Eike
APPLICANT: Staub, Eike
APPLICANT: Ropeke, Stefan
APPLICANT: Mennerich, Detlev
APPLICANT: Mennerich, Detlev
APPLICANT: Lixinabnog
TITLE OF INVENTION: Human nucleic acid sequences from lung tumours
FILE REFERENCE: 00154/002001
CURRENT APPLICATION WUMBER: US/10/821,801
CURRENT FILING DATE: 2003-04-09
PRIOR FILING DATE: 2003-04-09
PRIOR FILING DATE: 2003-04-09
NUMBER OF SEQ ID NOS: 990
SOFTMARE: Patentin version 3.2
SEQ ID NO 503
LENGTH: 638
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; Pred. No. 4.8e-17;
28; Mismatches 73;
                                                                                                                                                                                                                                                             ; Sequence 503, Application US/10821801; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; Sequence 35, Application US/10659295; GENERAL INFORMATION:
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                                                                                                                                189 EFKILSLHPGQKYLVQVRCK 208
                                                                                                                                                                                                                                                                                                                 APPLICANT: Hinzmann, Bernd
APPLICANT: Rosenthal, Andre
APPLICANT: Hermann, Klaus
APPLICANT: Heiden, Esmeralda
APPLICANT: Pilarsky, Christian
APPLICANT: Brummendorf, Thomas
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ORGANISM: Homo Sapiens
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Best Local Similarity
Matches 62; Conserv
       144 PYLW---
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US-10-659-295-35
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Sequence 142. Application US/10764425

SEREAL INFORMATION:

APPLICANT: Bayer Pharmaceuticals Corporation
APPLICANT: Brelady, Deepa

APPLICANT: Bigwood, Douglas

APPLICANT: Taylor, Ian

TITLE OF INVENTION: EXPRESSION PROFILES FOR COLON CANCER AND METHODS OF USE

FILE REPERBUCE: 5151

CURRENT APPLICATION NUMBER: US/10/764,425

CURRENT FILING DATE: 2004-01-23

PRIOR APPLICATION NUMBER: 60/442,582

PRIOR PILING DATE: 2003-01-24

NUMBER OF SEQ ID NOS: 191

SOFTWARE: PATENTIN Version 3.2
                            APPLICANT: EVELEIGH, Deepa APPLICANT: EVELEIGH, Deepa APPLICANT: Bigwood, Douglas APPLICANT: Bigwood, Douglas APPLICANT: Bigwood, Douglas TITLE OF INVENTION: EXPRESSION PROFILES FOR COLON CANCER AND METHODS OF USE FILE REFERENCE: 515.51
CURRENT APPLICATION NUMBER: PCT/US04/02188
CURRENT APPLICATION NUMBER: PCT/US04/02188
PRIOR FILING DATE: 2004-01-24
NUMBER OF SEQ ID NOS: 191
SOFFWARE: DECENTION OF SEQ ID NOS: 191
SOFFWARE: PLACETION VERSION 3.2
SEQ ID NO 142
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50 EPKFTXCRSPERETFSCHWIDEVHHGIXNLGPIQLFYTRRNTQEWIQEWKECPDYVSAGE 109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       84 NSCHFGKQYTSMWRTYIMMVNATQMGSSFSDELYVDVTYIVQPDPPLELAVEVKQPEDRK 143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            84 NSCHFGKQYTSMWRTYIMMVNATQMGSSFSDELYVDVTYIVQPDPPLELAVEVKQPEDRK 143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           144 PYLW--------IKWSPFTLIDLKTGWFTLLYEIRLKPEKAAEWEIHFAGQQT 188
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           30 KPEIFKCRSPNKETFTCWW----RPGTD--GGLPINYSLIYHREGETLMHECPDYITGGP 83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                30 KPEIFKCRSPNKETFTCWW----RPGTD--GGLPTNYSLTYHREGETLMHECPDYITGGP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 638;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            73;
                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
22.5%; Score 262.5; DB 1
Best Local Similarity 31.0%; Pred. No. 4.8e-17;
Matches 62; Conservative 28; Mismatches 72
            Bayer Pharmaceuticals Corporation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          189 EFKILSLHPGQKYLVQVRCK 208
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US-10-764-425-142
                                                                                                                                                                                                                                                                                                                                                                         ORGANISM: Homo sapiens
PCT-US04-02188-142
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LENGTH: 638
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                                                                                                                                                                                                                                                                                                                                                                                                                         156 IDLKTGWFTLLY----EIRLKPE-KAAEWEI--HFAGQOTEFKILSLHPGQKYLVQVRC 207
                                                                                                                                                                                                                                                                                                                                                                                                                                                257 -----WKPSEYMEQECELRYQPQLKGANWTLVFHLPSSKDQFELCGLHQAPVYTLQMRC 310
                                                                                                                                                                                                                   4 NVASATVFTL-----LLFLNTCLLNGQLPPGKPEIFKC-RSPNKETFTCWWRPGTDGGL 56
                                                                                                                                                     Query Match
Best Local Similarity 26.2%; Pred. No. 4.8e-10;
Matches 63; Conservative 36; Mismatches 82; Indels 59
; PRIOR FILING DATE: 2002-12-31; NUMBER OF SEQ ID NOS: 41; SOFTWARE: Patentin version 3.1; SEQ ID NO 35; LENGTH: 837; TYPE: PRT
; ORGANISM: Mus musculus
US-10-659-295-35
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Search completed: May 12, 2004, 16:23:52 Job time : 21 secs

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                                                                             May 12, 2004, 16:15:21 ; Search time 20 Seconds (without alignments) 1010.011 Million cell updates/sec
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                                                                                                                                  US-10-029-079-3
1166
1 MKENVASATVFTLLLFLNTC......KILSLHPGQKXLVQVRCKPD 210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Description
GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
                                                                                                                                                                                                                                                          Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                 283366 seqs, 96191526 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SUMMARIES
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Maximum Match 100%
Listing first 45 summaries
                                                    OM protein - protein search, using sw model
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Gapop 10.0 , Gapext 0.5
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Maximum DB seq length: 200000000
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Query
Match Length DB
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Perfect score:
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No.
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granulocyte colony	granulocyte colony	interleukin-11 rec	interleukin-11 rec	prolactin receptor	glycoprotein 130 -	interleukin-6 sign	ciliary neurotroph	growth promoting a	ciliary neurotroph	common cytokine re	interleukin-6 rece	interleukin-6 rece	leptin receptor, s	leptin receptor, s	leptin receptor, s
JH0329	C38252	I48343	137891	I56840	I49699	A44257	UHHUCN	S60614	158141	JC7907	JL0144	JL0145	S68441	S68439	S68437
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		13.7	13.1	12.2	11.8	11.5	11.5	11.4	11.2		10.6	10.6	10.3	10.3	10.3

## ALIGNMENTS

PESCUT: 1  B59402  B59
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prolactin receptor 2 precursor - rabbit
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Best Local Similarity 99.5%;
Matches 210; Conservative
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Prolactin receptor short form Sla precursor, breast cancer cells T-47D - human

C,Species: Homo sapiens (man)

C,Date: 01-Feb-2002 #sequence_revision 01-Feb-2002 #text_change 23-Sep-2002

C,Date: 01-Feb-2002 #sequence_revision 01-Feb-2002 #text_change 23-Sep-2002

C,Date: 01-Feb-2002 #sequence_revision 01-Feb-2002 #text_change 23-Sep-2002

B,Hu, Z.Z.; Meng, J.; Dufau, M.L.

J. Biol. Chem. 276, 41086-41094, 2001

A,Filt.er Isolation and characterization of two novel forms of the human prolactin recept

A,Reference number: A59405, MUID:21538812; PMID:11518703
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Ad0144

prolactin receptor long form precursor, hepatoma and breast cancer cells - human
C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Species: Homo sapiens
R;Boutin, J.M.; Edery, M.; Shirota, M.; Jolicoeur, C.; Lesueur, L.; Ali, S.; Gould, D.;
R;Boutin, J.M.; Edery, M.; Shirota, M.; Jolicoeur, C.; Lesueur, L.; Ali, S.; Gould, D.;
A;Title: Identification of a cDNA encoding a long form of prolactin receptor in human he
A;Reference number: A40144; MUID:90114212; PMID:2558309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A,Cross-references: GB:AF214012, PIDN:AF214012.1
C,Comment: This is one of the short forms (S1a and S1b) of the human prolactin receptor
eta-casein gene promoter activation, with S1a less effective than S1b. However, their li
ted COS-1 and HEK293 cells is due to rapid intracellular turnover of the receptor. #expe
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    120
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
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A;Gene: GDB:PRLR
A;Cross-references: GDB:120315; OMIM:176761
A;Gene: GDB:PRLR
A;Cross-references: GDB:120315; OMIM:176761
C;Superfamily: cytokine receptor homology
C;Reywords: glycoprotein; transmembrane protein
C;Superfamily: cytokine receptor, short form Sla #status predicted <MAI>F;25-376/Product: prolactin receptor, short form Sla #status predicted <MAI>F;36-221/Domain: cytokine receptor homology <CRS>
F;59,104,233/Binding site: carbohydrate (Asn) (covalent) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61 SLIYHREGETLMHECPDYIIGGPNSCHFGKQYTSMWRTYIMMVNAINQMGSSFSDELYVD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MKENVASATVFTLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNY
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Pred. No. 5.8e-95;
0; Mismatches 0; Indels
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R;Hu, Z.Z.
BIHFAGOQTEFKILSLHPGQKYLVQVRCKPD
                                              181 EIHFAGOÓTEFKILSLHPGÓKYLVGVRCKPD
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al Similarity 99.5%;
210; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Reference number: A49400
A;Accession: A49400
A;Status: preliminary
A;Molecule type: DMA
A;Residues: 1-376 <HU2>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Molecule type: DNA
A; Residues: 1-376 <HU1>
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Matches 210; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                           A; Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               submitted to GenBank,
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A; Molecule type: mRNA
A; Residues: 1-622 < BOUS
A; Colecule type: mRNA
A; Residues: 1-622 < BOUS
A; Colecule type: mRNA
A; Residues: 1-622 < BOUS
B; U.A.
J. Biol. Chem. 270, 13133-13137, 1995
A; Title: Productin receptor antagonists that inhibit the growth of breast cancer cell lingerence number: A57018; MUID:95286597; PMID:7768908
A; Reference number: A57018; MUID:95286597; PMID:7768908
A; Reference number: A57018; MUID:95286597; PMID:7768908
A; Reference number: A57018; MUID:9939114; PIDN:AAB34470.1; PID:g999115
A; Residues: 25-228, AW < RES
A; Residues: 25-288, AW < RES
A; Residues: 25-288, AW < RES
A; Residues: 25-288, AW 

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A; Residues: 41-58, X', 60-66;90-93, X', 95-96, X', 98-103, X', 105, XX', 108, 150-164, XX', 167
A; Note: the amino end of the mature protein was blocked
C; Superfamily: cytokine receptor homology
C; Keywords: blocked amino end; glycoprotein; transmembrane protein
F;1-24/Domain: signal sequence #status predicted <SIG>F;25-616/Product: prolacin receptor 2 #status predicted <MAT>F;35-21/Domain: cytokine receptor homology <CRS>
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(Species: Oryctolagus cuniculus (domestic rabbit)
C;Date: OrSep-1990 #sequence_revision 07-Sep-1990 #text_change 28-Jul-2000
C;Accession: A30304; A60380
R;Edery, M.; Jolicoeur, C.; Levi-Meyrueis, C.; Dusanter-Fourt, I.; Petridou, B.; Boutin, Proc. Natl. Acad. Sci. U.S.A. 86, 2112-2116, 1989
A;Title: Identification and sequence analysis of a second form of prolactin receptor by A;Reference number: A30304; MUID:89184578; PMID:2928321
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A; Residues: 1-616 < REDS.
A; Residues: 1-616 < REDS.
A; Cross-references: GBS-J04510; NID: g165669; PIDN: AAA31457.1; PID: g165670
R; Waters, M.J.; Spencer, S.A.; Hamlin, G.; Henzel, W.J.; Wood, W.I.
Int. J. Blochem. 22, 1089-11095, 1990
A; Title: Purification and parallal sequence of the rabbit mammary gland pr
A; Reference number: A60380; MUID: 91146782; PMID: 2289615
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Pred. No. 1e-94;
0;. Mismatches
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              growth
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A,Accession: A29884
A,Accessio
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71.8%; Score 837; DB 2; Length 41
Best Local Similarity 72.7%; Pred. No. 1.2e-66;
Matches 149; Conservative 20; Mismatches 34; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
71.8%; Score 837; DB 2;
Best Local Similarity 72.7%; Pred. No. 8.6e-67;
Matches 149; Conservative 20; Mismatches 34
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C;Species: Rattus norvegicus (Norway rat)
C;Date: 30-Sep-1989 #sequence_revision 30-Sep-1989 #text_change 28-Jul-2000
C;Accession: A29884
R;Boutin, Jun; Jolicoeur, C.; Okamura, H.; Gagnon, J.; Edery, M.; Shirota, M.; Banville
Cell 53, 69-77, 1988
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                            F;235-258/Domain: transmembrane #status predicted <TMM>
F;59,104,132,347,389,411/Binding site: carbohydrate (Asn) (covalent) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       projectin receptor - bovine
C:Species: Bos primigenius taurus (cattle)
C:Sacession: 14-5971
R:Scott, P.; Kessler, M.A.; Schuler, L.A.
Mol. Cell. Endocrinol. 94 the bovine prolactin receptor and distribution of prola A; Aitle: Molecular cloning of the bovine prolactin receptor and distribution of prola A; Accession: 145971; MuID:93246019; PMID:1338725
A; Accession: 145971; MuID:93246019; PMID:1338725
A; Accession: 145971; MuID:93246019; PMID:1338725
A; Residues: 1-581 < SCo.
A; Residues: 1-581 < SCo.
A; Residues: 1-581 < SCo.
A; Cross-references: GB:L02549; NID:g163617; PIDN:AAA51417.1; PID:g163618
C; Genetics:
A; Genetics:
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                                                                                                                                DB 2;
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                                                                                                                             Query Match 80.2%; Score 935.5; DB 2; Best Local Similarity 78.7%; Pred. No. 3.5e-75; Matches 166; Conservative 18; Mismatches 26;
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productin receptor precursor - mouse
C;Species: Mus musculus (house mouse)
C;Date: 0.2-Aug-1996 #text_change 28-Jul-2000
C;Accession: 177525
R;Davis, J.A.; Linzer, D.I.H.
Mol. Endocrinol. 3, 674-680, 1989
A;Title: Expression of multiple forms of the prolactin receptor in mouse liver.
A;Reference number: 157699; MUID:89261824; PMID:272531
A;Accession: 177525
A;Accession: 177525
A;Accession: 177525
A;Accession: 177525
A;Reference number: 157699; MUID:89261824; PMID:272531
A;Residues: 1-292 cRES
A;Residues: 1-292 cRES
A;Residues: 1-292 cRES
A;Cross-references: GB:M22959; NID:g200481; PIDN:AAA39977.1; PID:g200482
C;Superfamily: cytokine receptor homology
F;31-216/Domain: cytokine receptor homology
                                                                EGETLMHECPDYITGGPNSCHFGKQYTSMWRTYIMMVNAT-QMGSSFSDELYVDVTYIVQ 125
                                                                                                   126 PDPPLELAVEVKOPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWEIHFAG 185
                                                                                                                                                                                                          in mouse liver.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       67 EGETLAHECPDYITGGPNSCHFGKQYTSMWRTYIMAVNAT-QMGSSFSDELYVDVTYIVQ 125
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C;Species: Mus musculus (house mouse)
C;Date: 02-Aug-1996 #sequence_revision 02-Aug-1996 #text_change 28-Jul-2000
C;Accession: 177524
R;Davis, J.A.; Linzer, D.I.H.
MOI. Endocrinol: 3, 674-680, 1989
A;Title: Expression of multiple forms of the prolactin receptor in mouse liv
A;Reference number: 157699; MUID:89261824; PMID:2725531
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              62 BGEKNIYECPDYKISGPNSCFFSKQYISIWKIYIITVNAINEMGSSISDPLYVDVIYIVE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7 SATVFTLLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNYSLTYHR
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C;Superfamily: cytokine receptor homology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ;
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A;Molecule type: mRNA
A;Residues: 1-303 <RES>
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                                                                                                                                                                                                                                                                                          210
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A36116
productin receptor 2 precursor - rat
C.Species: Rattus norvegicus (Norway rat)
C.Acession: A36116
R.Shirota, M.; Banville, D.; Ali, S.; Jolicoeur, C.; Boutin, J.M.; Edery, M.; Djiane, J.
M.]. Endocrinol. 4, 1136-1143, 1990
A.Title: Expression of two forms of prolactin receptor in rat ovary and liver.
A; Reference number: A36116; MUID:91155946; PMID:2293022
A; Retais: preliminary
A; Residues: 1-610 < SHI
A; Residues: 1-610 < SHI
A; Residues: 1-610 < SHI
A; Cross-references: GB:M57668; NID:9206366; PIDN:AA41938.1; PID:g206367; GB:M60728
C; Superfamily: cytokine receptor homology < CRS>
F; 31-216/Domain: cytokine receptor homology < CRS>
                                                                                                                                                                                                                                                                                                   lactogen receptor 1 - rat
Cispecies: Rattus norvegicus (Norway rat)
Cispecies: Rattus norvegicus (Norway rat)
Cispecies: 13-Jul-1990 #sequence_revision 09-Oct-1992 #text_change 28-Jul-2000
Cidacession: A34631
Rizhang, R.; Buczko, E.; Tsai-Morris, C.H.; Hu, Z.Z.; Dufau, M.L.
Rizhang, R.; Buczko, E.; Tsai-Morris, C.H.; Hu, Z.Z.; Dufau, M.L.
Aichem Biophys. Res. Commun. 168, 415-422, 1990
A;Reference number: A34631
A;Reference number: A34631
A;Accession: A34631
A;Accession: A34631
A;Equues: preliminary
A;Molecule type: mRNA
A;Residues: 1-610 <ZHA>
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PDPPLELAVEVKQPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWEIHFAG 185
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Cross-references: GB:MJ4083; NID:g205122; PIDN:AAA79273.1; PID:g205123
A;Note: the authors translated the codon GAG for residue 533 as Gly
C;Superfamily: cytokine receptor homology
F;31-216/Domain: cytokine receptor homology <CRS>
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ilarity 72.7%; Pred. No. 1.9e-66;
Conservative 20; Mismatches 14:
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                                                                                                            186 QQTEFKILSLHPGQKYLVQVRCKPD 210
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                                                                                                                                                182 HQTQFKVFDLYPGQKYLVQTRCKPD
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Best Local 9
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Gaps

121

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Length 303 69.8%; Score 813.5; DB 2; Query Match

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prolactin receptor - pigeon

C,Species: Columba livia (domestic pigeon)

C,Date: 13-Sep-1996 #sequence_revision 13-Sep-1996 #text_change 28-Jul-2000

C,Date: 13-Sep-1996 #sequence_revision 13-Sep-1996 #text_change 28-Jul-2000

C,Date: 150455

R;Chen, X.; Horseman, N.D.

Bidocrinology 135, 269-276, 1994

A;Title: Cloning, expression, and mutational analysis of the pigeon prolactin receptor. A;Reference number: 150455

A;Accession: 150455

A;Accession: 150455

A;Accession: preliminary; translated from GB/EMBL/DDBJ

A;Residues: 1-830 <CHES.

A;Residues: 1-840 <
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C;Species: Gallus gallus (chicken)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 28-Jul-2000
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 28-Jul-2000
C;Accession: JQ1655
R;Tanaka, M; Maeda, K; Okubo, T; Nakashima, K.
Biochem. Biophys. Res. Commun. 188, 490-496, 1992
A;Title: Double antenna structure of chicken prolactin receptor deduced from the A;Reference number: JQ1655; MUID:93075121; PMID:1445292
A;Accession: JQ1655
A;Molecule type: mRNA
A;Residues: 1-831 -TANA
A;Residues: 1-831 -TANA
A;Cross-references: DBBJ:D13154; NID:9222848; PIDN:BAA02439.1; PID:9222849
A;Experimental source: Kidney
C;Superfamily: cytokine receptor homology
C;Reywords: glycoprotein; transmembrane protein
C;Keywords: glycoprotein; transmembrane protein
C;Heywords: slycoprotein; transmembrane protein
C;Heywords: projactin receptor #status predicted <MAT>
E;24-811/Product: projactin receptor #status predicted
C;Monain: slgnal sequence #status predicted
C;Monain: slgnal sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A,Cross_references: EMBL:U07694, NID:9466381; PIDN:AAA20646.1; PID:9466382
C;Superfamily: cytokine receptor homology
F;36-220/Domain: cytokine receptor homology <CRS1>
F;240-426/Domain: cytokine receptor homology <CRS2>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               23 NGQLPPGKPEIFKCRSPNKETFICWWRPGIDGGLPINYSLTYHREGETLMHECPDYITGG
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F;239-425/Domain: cytokine receptor homology <CRS2>
F;439-462/Domain: transmembrane #status predicted <TMM>
F;59,91,100,112,132,262,303,315,335,647,701,800/Binding site:
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61.9%; Pred. No. 4.1e-53;
tive 32; Mismatches 39;
                                               OQTEFKILSLHPGQKYLVQVRCKPD 210
                                                                                       182 HQTQFKVFDLYPGQKYLVQTRCKPD 206
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Best Local Similarity 61.9
Matches 117; Conservative
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Matches 117; Conservative
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A)Accession: S34356
A)Molecule type: mRNA
A)Molecule type: mRNA
A)Molecule type: mRNA
A)Molecule type: mRNA
A)Molecule: 1-579.7*559-608 «EDE>
A)Cross-references: EMBL:X73372; NID:g312696; PIDN:CAA51789.1; PID:g312697
A)Cross-references: EMBL:X73372; NID:g312696; PIDN:CAA51789.1; PID:g312697
C)Comment: Prolactin receptor is capable of transducing a signal to milk protein ge C; Superfamily: cytokine receptor homology
C)Superfamily: cytokine receptor homology
C)Keywords: receptor; transmembrane protein
F;31.216/Domain: cytokine receptor pendicted <TMM>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Molecule type: mRNA
A;Residues: 1-608 <MOO>
A;Cross-references: GB:L13593; NID:g347398; PIDN:AAC37641.1; PID:g347842
R;Edery, M.; Pezet, A.; Nandi, S.; Kelly, P.A.
Submitted to the EMBL Data Library, June 1993
A;Description: Isolation and nucleotide sequence of a mouse cDNA prolactin receptor.
A;Reference number: S34356
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                                                                                                                                                                                                                                                          EGETLAMECPDYITGGPNSCHPGKQYTSMWRTYIMMVNAT-QMGSSFSDELYVDVTYIVQ 125
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A;Nolecule type: mENA,
A;Residues: 1-608 <RES>
A;Residues: 1-608 <RES>
A;Cross-references: GB:L14811; NID:g293769; PIDN:AAA02686.1; PID:g293770
R;Nocs-, R.C.; Oka, T.
Gene 134, 263-265, 1993
A;Title: Cloning and sequencing of the cDNA encoding the murine mammary gA;Reference number: JT0671; MUID:94085788; PMID:8262385
                                                             Gaps
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                         Pred. No. 1e-64;
; Mismatches 36;
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69.8%; F1-
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                                                                                                                                                                                                                                                                                                                                       prolactin receptor - Nile tilapia
C;Species: Tilapia nilotica, Orecchromis niloticus (Nile tilapia)
C;Date: 13-Sep-1996 #sequence_revision 13-Sep-1996 #text_change 28-Jul-2000
C;Accesson: I51086
R;Sandra, O.; Sohm, F.; de Luze, A.; Prunet, P.; Edery, M.; Kelly, P.A.
Proc. Natl. Acad. Sci. U.S.A. 92, 6037-6041, 1995
A;Title: Expression cloning of a cDNA encoding a fish prolactin receptor.
A;Reference number: I51086; MUID:95320210; PMID:7597076
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A; Molecule type: mRNA
A; Residues: 1-630 < SAN>
A; Cross-references: GB:L34783; NID:g903846; PID:g903847
C; Superfamily: cytokine receptor homology
F;37-222/Domain: cytokine receptor homology < CRS>
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Job time : 21 secs
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IVQIHCKPD 415
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-!- SIMILARITY: Contains 2 fibronectin type III domains.
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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CUTR CHICK
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PRILE, COLLII
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## ALIGNMENTS

RESULT PRIR H ID P	TI 1 HUMAN PRIK HUMAN STANDARD; PRI; 622 AA.
Sto	(Rel. 15, Creat (Rel. 15, Last
D D D	15-MAR-2004 (Rel. 43, Last annocation update) Prolactin receptor precursor (PRL-R).
S O	Homo sapiens (Human).
88	oa; Chordata; Craniata; Vertebrata; E
88	
RN	
ዊ ድ ር አ	SEQUENCE FROM N.A. (ISOFORM 1). MRDLINE=90114212: PubMed=2558309:
R.	
R.A	D., Djiane J., Kelly
R K	r cells.";
RL	ocrinol. 3:1455-1461(1989).
R.	:
다 t	SEQUENCE FROM N.A. (ISOFORM 1).
Z Z	dires M., Dufau
RT	ne human prolactin receptor gene structure and alt
R I	ion: the
Y K	DP(N): ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
Z Z	64:113
ЯP	SEQUENCE FROM N.A. (ISOFORM 2).
RC	TISSUE=Breast carcinoma;
R.	4000
X &	or a mover and runctionar muman PRLr? containing only one extrac
R	domain.";
RL	20
Z :	[4]
7 Y	X-KAY CKYSTALLOGKAPHY (2.9 ANGSIKOMS) OF 25-255. MRDIINR-95075462. DibMed=7984244.
£ 2	
RT	"The X-ray structure of a growth hormone-prolactin receptor complex."
집 6	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
၌ မ	receptor for the anterior picultary
ខ្ល	proidcilli. -!- SUBCELLULAR LOCATION: Type I membrane protein.
ပ္ပ	TS:
ខ្ល	Event=Alternative splicing; Named isoforms=2;
ខ្លួ	name=1; IsoId=P16471-1; Sequence=Displayed;
႘	Name=2; Synonyms=Delta-S1;
ខ្ល	
5 E	to the type I cytokine raming of
ខ្ល	-!- SIMILARITY: Contains 2 fibronectin type III domains.

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                                                                                                                                                                                                                                             (POTENTIAL).
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                                         PROLACTIN RECEPTOR.
EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                CYTOPLASMIC (POTENTIAL). FIBRONECTIN TYPE-III 1. FIBRONECTIN TYPE-III 2.
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TISSUE-Mammary gland;
MEDLINE-89184578; PubMed=2928321;
MEDLINE-89184578; PubMed=2928321;
Edery M., Jolicoeur C., Levi-Meyrueis C., Dusanter-Fourt I.,
Petridou B., Boutin J.M., Lesueur L., Kelly P.A., Djiane J.;
"Identification and sequence analysis of a second form of prolactin
receptor by molecular cloning of complementary DNA from rabbit
mammary gland.";
Proc. Natl. Acad. Sci. U.S.A. 86:2112-2116(1989).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Proteins 27:459-468 (1997).
-!- FUNCTION: This is a receptor for the anterior pituitary hormone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               -i- SUBCELLULAR LOCATION: Type I membrane protein.
-i- SIMILARITY: Belongs to the type I cytokine family of receptors.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Oryctolagus cuniculus (Rabbit).
Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Lagomorpha, Leporidae, Oryctolagus.
NCBI_TAXID=9986;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Halaby D., Thoreau E., Djiane J., Mornon J.-P.; "Homology modeling of rabbit prolactin hormone complexed with its
                                                    DB 1; Length 622;
                                                                                      0; Indels
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225
69505 MW; DB7FD0328608C787 CRC64;
                                                Score 1155.5; DB 1
Pred. No. 1.3e-100;
0; Mismatches 0;
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01-AFR-1990 (Rel. 14, Last sequence update)
15-WAR-2004 (Rel. 43, Last annogation update)
                                                                                                                                                                                                                                                                                                                                    616 AA
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                                                  Query Match
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Matches 210; Conservative
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PDB; 1AN3; 03-DEC-97.
InterPro; IPR002996; CR1A.
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622 AA;
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InterPro; IPR008957; FN_III-like.
InterPro; IPR003961; FN_III.
InterPro; IPR003528; Hemtopoptn_L_F1.
EnterPro; IPR003528; Hemtopoptn_L_F1.
SMART; SM00060; FN3; 2.
PR051TE; PS01352; HEMATOPO_REC_L_F1; 1.
PR051TE; PS01352; HEMATOPO_REC_L_F1; 1.
24 BY SIMILARITY.
                                                                                       (POTENTIAL). (POTENTIAL). (POTENTIAL).
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                                                                                                                                                                                                                                                         80.2%; Score 935.5; DB 1; Length 616; 78.7%; Pred. No. 5.3e-80; ive 18; Mismatches 26; Indels 1
                                          PROLACTION RECEPTOR.
EXTRACELULAR (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
FIBRONECTIN TYPE-III 1.
FIBRONECTIN TYPE-III 2.
BY SIMILARITY.
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(Rel. 35, Last sequence update)
                                                                                                                                                                                                                                                                Best Local Similarity 78.7
Matches 166; Conservative
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616 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 MKENVASATVFTLLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDINE=96330711; PubMed=7561644;
Clarke L.A., Edery M., Loudon A.S., Randall V.A., Postel-Vinay M.C.,
Kelly P.A., Jabbour H.N.;
"Expression of the prolatin receptor gene during the breeding and
non-breeding seasons in red deer (Cervus elaphus): evidence for the
expression of two forms in the testis.";
J. Endocrinol. 146:313-321(1995).
-!- FUNCTION: This is a receptor for the anterior pituitary hormone
                                                                                                                                                                             Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia, Eutheria, Cetartiodactyla, Ruminantia, Pecora, Cervoidea, Cervidae, Cervinae, Cervus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            prolactin.
--- SUBCELLULAR LOCATION: Type I membrane protein.
--- SIMILARITY: Belongs to the type I cytokine family of receptors.
--- SUBCEARITY: Contains 2 fibronectin type III domains.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  e Euro,

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C EMBL; X94953; CAA64419.1; -..

DR HSSP; PHY87; LAN3.

DR HIGFPRO; IPR008957; FN III-like.

DR InterPro; IPR008957; FN III-like.

DR InterPro; IPR008957; FN III-like.

DR InterPro; IPR008957; FN III-like.

DR SWART; SM00606; FN3; 1.

DR SWART; SM00606; FN3; 1.

DR SWART; SM00606; FN3; 1.

DR SWART; SM13; 2.

DR SWART; SM13; 1.

DR SWART; SM11; 1.

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            N-LINKED (GLCNAC. . .) (POTENTIAL)
N-LINKED (GLCNAC. . .) (POTENTIAL)
N-LINKED (GLCNAC. . .) (POTENTIAL)
975E47CBE5CCRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       77.3%; Score 901.5; DB 1; Length 581; 74.4%; Pred. No. 7.7e-77;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
15-MAR-2004 (Rel. 43, Last annotation update)
Prolactin receptor precursor (PRL-R).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             24; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Local Similarity 74.4
Matches 157; Conservative
                                                                                                                                                         Cervus elaphus (Red deer)
                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                  Cervidae, Cervin
NCBI_TaxID=9860;
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use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an enail to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          581;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     74.2%; Score 865.5; DB 1; Length 70.6%; Pred. No. 1.8e-73;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          34; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Missing (in isoform Short) / FTId=VSP 001719.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CYTOPLASMIC (POTENTIAL).
FIRRONECTIN TYPE-III 1.
FIBRONECTIN TYPE-III 2.
BY SIMILARITY.
BY SIMILARITY.
                                                                                                                                                                                                                               HSSP; 145911, 145971.

HSSP; P14787; 1AN3.
InterPro; IPR002996; CRIA.
InterPro; IPR003957; FN III-like.
InterPro; IPR003528; Hemtopoptn_L_F1.
Pfam, PF0041; fn3; 2.
PROSITE; PS01352; HEMATOPO REC_L_F1, I.
Receptor; Transmembrane; Glycoprotein; Signal; Repeat;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MT -> IM (IN REF. 3).
L -> P (IN REF. 3).
7385C0D6956EE139 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PROLACTIN RECEPTOR.
EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      H -> D (IN REF. 3).
E -> D (IN REF. 3).
L -> V (IN REF. 3).
E -> H (IN REF. 3).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRLR SHEEP STANDARD; PRT; 581 AA. 046551; 046569; 046573; 046574; P79203; P79205; 28-FEB-2003 (Rel. 41, Created) FEB-2003 (Rel. 41, Last sequence update) 15-MAA-2004 (Rel. 43, Last annotation update) Prolactin receptor precursor (PRL-R) (OPR).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /FTId=VSP 001718
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EIHFAGQQTEFKILSLHPGQKYLVQVRCKPD 210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          27; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               POTENTIAL.
                                                                                                                                                      EMBL; AF027403; AAB83999.1; -.
EMBL; AF042780; AAB97748.1; -.
EMBL; AF042780; AAB97747.1; ALT_SEQ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Short)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     65153 MW;
                                                                                                                                EMBL; L02549; AAA51417.1; -.
EMBL; AF027403; AAB83999.1; -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches 149; Conservative
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122
227
227
46
86
132
296
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128
137
141
157
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137
141
156
186
581 AA;
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DOMAIN
TRANSMEM
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DISULFID
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CARBOHYD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SIGNAL
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PRLR SHEEP
ID PRLR SI
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE=98001468; PubMed=9343303; Bignon C., Binart N., Ormandy C., Schuler L.A., Kelly P.A., Djiane J., Bignon C., Binart N., Ormandy C., Schuler L.A., Kelly P.A., Djiane J., "Long and short forms of the ovine prolactin receptor: cDNA cloning and genomic analysis reveal that the two forms arise by different alternative splicing mechanisms in ruminants and in rodents."; J. Mol. Endocrinol. 19:109-120(1997).
-!- FUNCTION: This is a receptor for the anterior pituitary hormone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TISSUE-Mammary gland,
MEDLINE-95256770; PubMed=7738463;
Tchelet A., Staten N.R., Creely D.P., Krivi G.G., Gertler A.,
Tchelet A., Staten Owner of the second of the second
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A. (ISOFORM LONG).

TISSUB-Endometrium;

MEDLINE=93246019; PubMed=1338725;

Scott P., Kessler M.A., Schuler L.A.;

"Molecular cloning of the bovine prolactin receptor and distribution of prolactin and growth hormone receptor transcripts in fetal and
                                                                                                                                                                                                                                                                                                                                                                  Bos taurus (Bovine).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Butheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea;
Bovidae; Bovinae; Bos.
NCBI_TaxID=9913;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SIMILARITY: Belongs to the type I cytokine family of receptors.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                IsoId=028172-2; Sequence=VSP 001718, VSP_001719; TISSUR SPECIFICITY: Expressed in all tissues examined; liver, peripheral blood lymphocytes, endometrium, corpus luteum, intestine, fetal thymus, fetal spleen, fetal liver and fetal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TISSUE=Endometrium;
MEDLINE=97375450; PubMed=9231767;
Schuler L.A., Nagel R.J., Gao J., Horseman N.D., Kessler M.A.;
"Prolactin receptor heterogeneity in bovine fetal and maternal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A. (ISOFORM SHORT), AND TISSUE SPECIFICITY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Subfamily 1.
-!- SIMILARITY: Contains 2 fibronectin type III domains.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE OF 25-234 FROM N.A., AND SEQUENCE OF 25-33.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   prolactin.
SUBCELLULAR LOCATION: Type I membrane protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Event=Alternative splicing; Named isoforms=2;
                                                                                                                                                                             PRLR_BOVIN STANDARD; PRT; 581 AA. Q28172; 01880; 046591; 01-NOV-1997 (Rel. 35, Created) 11-NOV-1997 (Rel. 35, Last sequence update) 15-WAR-2004 (Rel. 43, Last annotation update) Prolactin receptor precursor (PRL-R).
  EIHFAGOQTEFKILSLHPGQKYLVQVRCKPD 210
                           IsoId=Q28172-1; Sequence=Displayed;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mol. Cell. Endocrinol. 89:47-58(1992).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Endocrinology 138:3187-3194(1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        tissues.
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180
                                                                                                                        RESULT 4
PRIL BOVIN

ID CAC 928172;
DT 01-NOV-
DT 01-NO
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61 SLITHREGETLMHECPDYITGGPNSCHFGKQYTSMWRTYIMMVNA-TQMGSSFSDELYVD 119 61 TLTYHKEGETLIHECPDYKTGGPNSCYFSKKHTSIWKYYVITVNALNQMGISSSDPLYVH 120 VIXIVOPDPPLELAVEVKOPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEW 179 121 VTYIVEPEPPANLTLELKHPEDRKPYLMIKWSPPTMTDVKSGWFIIQYEIRLKPEKATDW 180 9 9 1 MKENAASRVVFILLIFLSVSLLNGQSPPEKPKLVKCKSPGKETFTCWWEPGADGGLPTNY 1 MKENVASATVFTLLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNY Gaps KGKSEELLRAL -> ISQPSRLVSMF (in isoform N-LINKED (GLCNAC. . .) (POTENTIAL) N-LINKED (GLCNAC. . .) (POTENTIAL) ä

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ONTS STREEN (Sheep).

ONTS STREEN (Sheep).
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61 SLIYHREGETLMHECPDYITGGPNSCHFGKQYTSMWRTYIMMVNA-TQMGSSFSDELYVD 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VTYIVQPDPPLELAVEVKQPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEW 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9
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BY SIMILARITY.

N-LINKED (GLCNAC. ..) (POTENTIAL).

N-LINKED (GLCNAC. ..) (POTENTIAL).

R-LINKED (GLCNAC. ..) (POTENTIAL).

RGOPPERFRALKRENSEMERPETCWREBGADGGLPTNYTLTY

RR -> ASIYVPGGRCSSVCTYMAYPFVGGIFLHMYLCVDQ

YLLLTVTS (in isoform 3).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 MKENVASATVFTLLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
NCBI_TaxID=10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             YLLLTVTS (in isoform 3).
/FITd=VSP 001730.
Missing (In isoform 3).
/FITd=VSP 001731.
KGKSELLRAL -> ISQPSRLVSVF (in isoform
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /FTId=VSP_001732.
Missing (In isoform 2).
/FTId=VSP_001733.
I -> V (IN REF. 1; AAB97743/AAB97744).
E -> K (IN REF. 2).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A. (ISOFORM 1).
MEDIINE=91155946; PubMed=2293022;
Shirote M., Banville D., Ali S., Jolicoeur C., Boutin J.M.,
Edery M., Djiane J., Kelly P.A.;
"Expression of two forms of prolactin receptor in rat ovary and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1; Length 581;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIR RAT STANDARD, PRT; 610 AA.

1D PRIR RAT STANDARD, 263479; Q63723; Q64274;

AC DONOI-10; Q62832; Q63451; Q63479; Q63723; Q64274;

DT 01-NOV-1998 (Rel. 09, Created)

DT 01-NOV-1997 (Rel. 35, Last sequence update)

DT 15-MAR-2004 (Rel. 43, Last annotation update)

DF Projactin receptor precursor (PRL-R) (Lactogen receptor).
PROSITE; PS01352; HEMATOPO REC_LF1; 1.

Receptor; Transmembrane; Glycoprotein; Signal; Repeat;
Alternative splicing.
SIGNAL
CHAIN
25 581 PROLACTIN RECEPTOR.
DOWAIN
259 581 EXTRACELLULAR (POTENTIAL).
TRANSMEM 238 258 POTENTIAL.
DOMAIN
259 581 CYTOPLASMIC (POTENTIAL).
DOMAIN
250 581 CYTOPLASMIC (POTENTIAL).
DOMAIN
250 122 FIBRONBCTIN TYPE-III 2.
DISULFID
25 86 BY SINILARRITY.
CARBOHYD
25 59 N-LINKED (GLCNAC. ...) (POTENTIAL).
CARBOHYD
25 66 GGSPPEKPKLIKCRSPGRETFTCWMEPQI
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; Score 863.5; DB 1; Pred. No. 2.8e-73; 28; Mismatches 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EIHFAGQQTEFKILSLHPGQKYLVQVRCKPD 210
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SEQUENCE FROM N.A. (ISOFORMS 1 AND
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65235 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   74.1%;
70.6%;
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Best Local Similarity 70.6%
Matches 149; Conservative
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581 AA;
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SEQUENCE
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PDPPLELAVEVKQPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWEIHFAG 185
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BY SIMILARITY.

N-LINKED (GLCNAC. .).

N-LINKED (GLCNAC. .).

N-LINKED (GLCNAC. .).

N-LINKED (GLCNAC. .).

EVKQLKDKKTYLWVKWSPPT -> DYRWEVSCHQEALPKSA
                                                                                                                                                                                                                                                                                                                                                                                                      /FTTG=VSP 001726.
KGKSEELLSÄLGCQDFPPTSDCEDLLVEFL -> TGSPSKY
KVDLYLALPGGFGKLDNAGELDY (in isoform 3).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3 SALAFVILV-LNISLLKGQSPPGKPEIHKCRSPDKETFTCWWNPGTDGGLPTNYSLTYSK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              67 EGETLIMHECPDYITGGPNSCHFGKOYTSMWRTYIMWVNAT-OMGSSFSDELYVDVTYIVO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7 SATVFILLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNYSLTYHR
                                                                                                                                                POTENTIAL.

PROLACTIT RECEPTOR.

EXTRACELLULAR (BY SIMILARITY).

BY SIMILARITY.

CYTOPLAMIC (BY SIMILARITY).

FIBRONECTIN TYPE-III 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; DB 1; Length 610; 9e-71;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 34; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                V -> A (IN REF. 2).
Q -> V (IN REF. 2).
Q -> E (IN REF. 2).
Q -> E (IN REF. 2).
A -> G (IN REF. 2).
T -> M (IN REF. 2).
C -> K (IN REF. 2).
W, 83D04D832861295D CRC64;
InterPro; IPR002996; CR1A.
InterPro; IPR008957; FN III-like.
InterPro; IPR003961; FN III-like.
InterPro; IPR003528; Hemtopoptn_L_F1.
Pfam; PF00041; fn3; 2.
SMART; SM00060; FN3; 2.
SMART; SN00560; FN3; 2.
FROSTIRE; PS01352; HEMATOPO REC_L F1; 1.
Receptor; Transmembrane; Glycoprotein; Signal; Repeat;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       /FTId=vSP_001727.
Missing (in isoform 3).
/FTId=vSP_001728.
Missing (in isoform 4).
/FTId=vSP_001729.
                                                                                                                                                                                                                                                                                                                                                                                         Missing (in isoform 2).
                                                                                                                                                                                                                                                                                                                                                             KLN (in isoform 2).
/FTId=VSP 001725.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIR MOUSE STANDARD, PRT; 608 AA. 008501; P15212; P15213; Q62009; 01-APR-1990 (Rel. 14, Created) 01-F2B-1995 (Rel. 31, Last sequence update) 15-MAR-2004 (Rel. 43, Last annotation update) PRIR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               71.8%; Score 837; DB 72.7%; Pred. No. 9e-71 Live 20; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            QQTEFKILSLHPGQKYLVQVRCKPD 210
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Missing
                                                                                                                 Receptor; Transmembrane; Glycoprote
Alternative splicing; 3D-structure
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4665
4665
541
5541
68599 MW,
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345
465
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TRANSMEM
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Best Local S
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PRLR MOUSE
DT 008501,
DT 01-APR-
DT 15-MAR-
DT 15-MAR-
DG PRLR.
CGN PRLR.
OS MUS MUS MUS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation-the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                    TISSUE=Lymphoma;
MEDLINE=29248184;
MEDLINE=29248184;
Ali S., Polligini I., Kelly P.A.;
"A prolactin-dependent immune cell line (Nb2) expresses a mutant form of prolactin receptor.";
J. Biol. Chem. 266:20110-20117(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=88165059; PubMed=2832068;
Boutin J.-M., Jolicoeur C., Okamura H., Gagnon J., Edery M.,
Shirota M., Banville D., Dusanter-Fourt I., Djiane J., Kelly P.A.;
"Cloning and expression of the rat prolactin receptor, a member of
the growth hormone/prolactin receptor gene family.";
Cell 53:69-77(1988).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Name-4; Synonyms-NB2;
IsoId=P05710-4; Sequence=VSP_001729;
SIMILARITY: Belongs to the type I cytokine family of receptors.
           MEDLINE=50241201; PubMed=2159291; Zhang R., Buczko E., Tsai-Morris C.-H., Hu Z.Z., Dufau M.L.; Zhang R., Buczko E., Tsai-Morris C.-H., Hu Z.Z., Dufau M.L.; Isolation and characterization of two novel rat ovarian lactogen receptor cDNA species. Commun. 168:415-422(1990).
                                                                                                                             Banville D., Stocco R., Murthy K.K., Boie Y., Kelly P.A.; Submitted (MAR-1996) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Subfamily 1.
SIMILARITY: Contains 2 fibronectin type III domains.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Event=Alternative splicing; Named isoforms=4;
Name=1; Synonyms=Long;
Isola=P05710-1; Sequence=Displayed;
Name=2; Synonyms=Short;
Isola=P05710-2; Sequence=VSP_001725, VSP_001726;
Name=3; Synonyms=Medium;
Isola=P05710-3; Sequence=VSP_001727, VSP_001728;
 TISSUE=Ovary;
 STRAIN=Sprague-Dawley;
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Mus musculus (Mouse)

99 61

Gaps 5

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                                                                SEQUENCE FROM N.A. (ISOFORM PRL-R3).
STRAIN=C3F, TISSUE=Mammary gland;
MEDINE=94085788; PubMed=8262385;
Moore R.C., Oka T.;
Mooring and sequencing of the cDNA encoding the murine mammary gland long-form prolactin receptor.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Isoid=008501-3; Sequence=VSP_001721, VSP_001722;
--- SIMILARITY: Belongs to the type I cytokine family of receptors.
Subfamily 1.
--- SIMILARITY: Contains 2 fibronectin type III domains.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mol. Endocrinol. 3:674-680(1989).
-!- FUNCTION: This is a receptor for the anterior pituitary hormone
                                                                                                                                                                                                                      STRAIN=Swiss Webster; TISSUE=Liver;
MEDILNE=23307149; PubMed=819571;
Clarke D.L., Linzer D.H.;
"Changes in prolactin receptor expression during pregnancy in the
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia; Eutheria, Rodentia, Sciurognathi, Muridae, Musinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Davis J.A., Linzer D.I.H.; "Expression of multiple forms of the prolactin receptor in mouse
                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A. (ISOFORM PRL-R3).
STRAIN=BALDAC; TISSUB-Mammary gland;
Edery M., Pecst A., Nand, S., Kelly P.A.;
Submitted (UZN-1993) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                          Sasaki M.;
Submitted (JUL-1992) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Name=PRL-R1;
IsoId=Q08501-2; Sequence=VSP_001723, VSP_001724;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             prolactin.
SUBCELLULAR LOCATION: Type I membrane protein.
ALTERNATIVE PRODUCTS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Event=Alternative splicing; Named isoforms=3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A. (ISOFORMS PRL-R2 AND PRL-R1).
STRAIN=Swiss Webster; TISSUE=Liver;
MEDLINE=89261824; PubMed=2725531;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 IsoId=008501-1; Sequence=Displayed;
                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A. (ISOFORM PRL-R3).
                                                                                                                                                                                                      SEQUENCE FROM N.A. (ISOFORM PRL-R3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MGD; MGI:97763; Prlr.
InterPro; IPR002996; CR1A.
InterPro; IPR008957; FN III-like.
InterPro; IPR003961; FN_III.
                                                                                                                                                                                                                                                                                        mouse_ovary.";
Endocrinology 133:224-232(1993).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL; L13593; AAC37641.1; --
EMBL; L14811; AAA02686.1; --
EMBL; X73372; CAA51789.1; --
EMBL; M22559; AAA3977.1; --
EMBL; M2259; AAA3977.1; --
PIR; I53269; I53269.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Linzer D.I.H.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             P16471; 1BP3
                              NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Name=PRL-R3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Name=PRL-R2;
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67 EGETLMHECPDYITGGPNSCHFGKOYTSMWRTYIMMVNAT-OMGSSFSDELYVDVTYIVQ 125
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                                                                                                                                                                                                                                                                   -> LWCSILQLTSLVKI
                                                                                                                                                                                                                                                                                                                                                                                                        7 SATVFTLLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNYSLTYHR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryoča, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Archosauria, Aves, Neognathae, Galliformes, Phasianidae, Phasianinae,
                                                                                                                                                 BY SIMILARITY.

BY SIMILARITY.

BY SIMILARITY.

N-LINKED (GLCNAC. . .) (POTENTIAL).

N-LINKED (GLCNAC. . .) (POTENTIAL).

N-LINKED (GLCNAC. . .) KPOTENTIAL).

KGKSEELLSALG -> VHNKEQLENYYY (in isoform
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
SEQUENCE FROM N.A.
STRAIN=White leghorn; TISSUE=Kidney;
MEDLINE=93075121; PubMed=1445292;
Tanaka M., Maeda K., Okubo T., Nakashima K.;
"Double antenna structure of chicken prolactin receptor deduced from
                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                  .;
                                                                                                                                                                                                                                                                                                                                                             DB 1; Length 608;
                                                                           PROLACTIN RECEPTOR.

EXTRACELLULAR (BY SIMILARITY).
BY SIMILARITY.
CYTOPLASMIC (BY SIMILARITY).
FIBRONECTIN TYPE-III 1.
FIBRONECTIN TYPE-III 2.
                                                                                                                                                                                                                                        Missing (in isoform PRL-R2).
FYIG-WSP 001722.
KGKSEELLSÄLGGODFPFPSDCE -> LWCS
PTYEFLCDL (in isoform PRL-R1).
Missing (in isoform PRL-R1).
/FTIG-WSP 001723.
                                                                                                                                                                                                                                                                                                                                                                                   36; Indels
                                                                                                                                                                                                                                                                                                                        -> F (IN REF. 2).
B8CE202B2EFC9FC6 CRC64;
InterPro; IPR003528; Hemtopoptn_L_F1.
Pfam; PF00041; fn3; 2.
SMART; SM00060; FN3; 2.
PROSITE; PS01352; HEMATOPO REC L_F1; 1.
PROSPECT Transmembrane; Glycoprotein; Signal; Repeat;
                                                                                                                                                                                                                               /FTId=VSP 001721..
                                                                                                                                                                                                                                                                                                                                                            Score 813.5; DB 1
Pred. No. 1.4e-68;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-JUN-1994 (Rel. 29, Last sequence update)
15-WAR-2004 (Rel. 43, Last annotation update)
Prolactin receptor precursor (PRL-R) (CPRLP).
                                                                                                                                                                                                                                                                                                                                                      69.8%; Stor. No. 1...
69.8%; Pred. No. 1...
1.ve. 25; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  186 QQTEFKILSLHPGQKYLVQVRCKPD 210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       182 HOTOFKVFDLYPGOKYLVOTRCKPD 206
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01-JUN-1994 (Rel. 29, Last seq
15-MAR-2004 (Rel. 43, Last anno
                                                                                                                                                                                                                                                                                                                                       68240 MW;
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                                             Receptor, Transmembra
Alternative splicing
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Q04594;
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Matches
     This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      285
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       142 RKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWEIHFAGOQTEFKILSLHPGQKY
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
them. Biophys. Res. Commun. 188:490-496(1992). FUNCTION: This is a receptor for the anterior pituitary hormone
                  prolactin.
SUBCELLULAR LOCATION: Type I membrane protein.
SIMILARITY: Belongs to the type I cytokine family of receptors.
                                                                                                                                                                                                                                                                                                                                                                               (POTENTIAL). (POTENTIAL). (POTENTIAL). (POTENTIAL).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   39; Indels
                                           Subfamily 1.
SIMILARITY: Contains 4 fibronectin type III domains.
                                                                                                                                                        HSSP, Die471, 1BB3.
InterPro; IPR002996; CRIA.
InterPro; IPR003961; FW III-like.
InterPro; IPR003528; Hemtopoptn_LFI.
Ffam, PR0041; ff3; 4.
PROSITE; PS01352; HEMATOPO_REC_LFI; 1.
Receppor; Transmembrane; Glycoprotein; Signal; Repeat.
                                                                                                                                                                                                                                                                                                                                                                                                                 1C4E75791DCADBE9 CRC64;
                                                                                                                                                                                                                                                        EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                      CYTOPLASMIC (POTENTIAL).
FIBRONECTIN TYPE-III 1.
FIBRONECTIN TYPE-III 2.
FIBRONECTIN TYPE-III 3.
FIBRONECTIN TYPE-III 3.
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Matches 117; Conservative 32; Mismatches 39
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831 AA;
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STANDARD;

PRLR\_COLLI ID PRLR\_COLLI

RESULT 9

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   82
                                                                                                                                                                                                                                                                 MEDLINE=94283367; PubMed=7516866;
Chen X., Horseman N.D.;
"Cloning, expression, and mutational analysis of the pigeon prolactin
receptor.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NGOLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNYSLTYHREGETLMHECPDYITGG
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                                                                                                                                                                                                                                                                                                                                                              Endocrinology 135:269-276(1994).
                                                                                                                                                                                                                                                                                                                                                                                                            prolactin.
--- SUBCELLULAR LOCATION: Type I membrane protein.
--- SIMILARITY: Belongs to the type I cytokine family of receptors. Subfamily 1.
--- SIMILARITY: Contains 4 fibronectin type III domains.
                                                                                                              Columba livia (Domestic pigeon).
Enkaryota, Meteazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Archosauria, Aves, Neognathae, Columbiformes, Columbidae, Columba
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           InterPro; Pro02996, CRIA.
InterPro; IPR008957; FN III-like.
InterPro; IPR008957; FN III-like.
InterPro; IPR008958; Hemtopopun_L.FI.
Pfam, PF00041; fn3; 4.
SMART; SM00660, FN3; 4.
RROSTER, PS01352; HEMATOPO REC_L.FI; 1.
Receptor; Transmembrane; Glycoprotein; Signal; Repeat.
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FIBRONECTIN TYPE-III 1.
FIBRONECTIN TYPE-III 3.
FIBRONECTIN TYPE-III 3.
FIBRONECTIN TYPE-III 4.
BY SIMILARITY.
N-LINKED (GLCNAC...) (F
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01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
15-MAR-2004 (Rel. 43, Last annotation update)
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                                                                     Prolactin receptor precursor (PRL-R)
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PIR; I50455; I50455.
HSSP; P16471; 1BP3.
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es 117; Conserv
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                                               PNSCHFGKQYTSMWRTYIMMVNAT-OMGSSFSDELYVDVTYIVOPDPPLELAVEVKQPED
                                                                                                                 RKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWEIHFAGQQTEFKILSLHPGQKY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE OF 82-121 AND 473-522 FROM N.A.
TISSUB-ovary;
TISSUB-OXARY;
Submitted (NAR-1995) to the EMBL/GenBank/DDBJ databases.
-!- FUNCTION: This is a receptor for the anterior pituitary hormone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SUBCELLULAR LOCATION: Type I membrane protein.
SIMILARITY: Belongs to the type I cytokine family of receptors.
Subfamily 1.
SIMILARITY: Contains 4 fibronectin type III domains.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 stazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Aves; Neognathae; Galliformes; Phasianidae; Meleagris
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Zhou J.F., Zadworny D., Guemene D., Kuhnlein U., "Molecular cloning, tissue distribution, and expression of the prolactin receptor during various reproductive states in Meleagris
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R EMBL; L76887, AABO1544.1; -.

R EMBL; L76887, AAA7538.1; -.

R EMBL; U22947, AAA7538.1; -.

R InterPro; IPR003957; FN III-like.

DR InterPro; IPR003528; Hemtopoptn_LF1.

PRAM; SMO0401; Fn3; 4.

SMART; SMO0606; FN3; 3.

R Receptor; PR013528; Hemtopoptn_LF1.

RW Receptor; HEMATOPO REC LF1; 1.

RW Receptor; HEMATOPO REC LF1; 1.

RW Receptor; HEMATOPO REC LF1; 1.

RM Receptor; HEMATOPO RECEPTOR.

FT CHAIN 24 438 POTENTIAL.

FT TRANSNEM 439 459 POTENTIAL.

FT TRANSNEM 439 459 POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                Q91034; Q91091; Q91092; O1-NOV-1997 (Rel. 35, Created) O1-NOV-1997 (Rel. 35, Last sequence update) O1-NOV-1997 (Rel. 35, Last sequence update) Prolactin receptor precursor (PRL-R) (TPRLR).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Meleagris gallopavo (Common turkey)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               IISSUE=Kidney;
MEDLINE=97057891; PubMed=8902221;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              gallopavo.";
Biol. Reprod. 55:1081-1090(1996)
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                                                                                                                                                                                                                                                             407 IVOIHCKPD 415
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Archosauria; Aves; 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               283 TAGPNSCYFDKKHTSFWIVYNITVKAINEMGSNSSDPHYVDVTYIVQPDPPANVILELKK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           139 PEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWEIHFAGQQTEFKILSLHPG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGGPNSCHFGKQYTSMWRTYIMWWNAT-QMGSSFSDELYVDVTYIVQPDPPLELAVBVKQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21 LINGOL-PPGKPEIFKCRSPNKETFICWWRPGIDGGLPTNYSLIYHREGETLMHECPDYI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Orecohromis niloticus (Nile tilapia) (Tilapia nilotica).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Labroidei;
Cichlidae; Orecohromis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TISSUE=Kidney;
MEDLINE=95320210; PubMed=7597076;
Sandra O., Sohm F., de Luze A., Prunet P., Edery M., Kelly P.A.;
Sandras O., Sohm F., de Lors and encoding a fish prolactin receptor.";
Proc. Natl. Acad. Sci. U.S.A. 92:6037-6041(1995)
-: FUNCTION: This is a receptor for the anterior pituitary hormone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    prolactin.
-!- SUBCELLULAR LOCATION: Type I membrane protein.
-!- SIMILARITY: Belongs to the type I cytokine family of receptors.
                                                                                                                                                                                               ( POTENTIAL) ( POT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 831;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Subfamily 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         220916320F77FAC1 CRC64;
       1 2 m 4
                                                                                                                                                                                                                                                                                                                                      (GLCNAC. . .)
(GLCNAC. . .)
(GLCNAC. . .)
(GLCNAC. . .)
FIBRONECTIN TYPE-III 1
FIBRONECTIN TYPE-III 3
FIBRONECTIN TYPE-III 3
FIBRONECTIN TYPE-III 3
BY SIMILARITY.
N-LINKED (GLCNAC...)
                                                                                                                                                                                                                                                                      (GLCNAC. . .)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            40;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; Score 682; DB 1;
; Pred. No. 4.3e-56;
31; Mismatches 40;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        091513;
01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
01-NOV-2097 (Rel. 43, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        630 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Prolactin receptor precursor (PRL-R)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   94394 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                58.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     QKYLVQVRCKPD 210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            :||:||: ||||
403 KKYIVQIHCKPD 414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches 119; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                831 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
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CARBOHYD
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                                                                                                                                                                                                                                                 CARBOHYD
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Best Local &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE
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                                              DOMAIN
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ID PRLR_C
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This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         63 TYHREGETLMHECPDYITGGPNSCHFGKQYTSMWRTY-INMVNATQMGSSFSDELYVDVT 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         122 YIVQPDPPLELAVEVKQPEDRKPY--LWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  13 LLLFLNTCLLNGQLPPGK----PEIFKCRSPNKETFTCWWRPGTDGGL-----PTNYSL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gallus gallus (Chicken).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
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(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
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-2004 (Rel. 43, Last annotation update)
hormone receptor precursor (GH receptor) (Serum binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               25.6%; Score 299; DB 1; Length 611; 34.4%; Pred. No. 2.3e-20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      89; Indels
                                                                                                                                                                                                                                                                                                                                                              GROWTH HORMONE RECEPTOR. EXTRACELLULAR (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C48750BF9EE4EBDA CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                   CYTOPLASMIC (POTENTIAL) FIBRONECTIN TYPE-III.
                                                                                                                                                                  HSSP; P10912; lAX1.
InterPro; IPR002996; CRIA.
InterPro; IPR008957; FN LII-like.
InterPro; IPR003957; FN LII-like.
InterPro; IPR003951; FN III.
InterPro; IPR0039528; Hemtopoptn_L_FI.
InterPro; IPR003961; FN III.
InterPro; IPR003961; FN III.
InterPro; IPR0039528; Hemtopoptn_L_FI.
InterPro; IPR039528; HEMATOPO REC_L FI; I.
Receptor; Transmembrane; Glycoprofein; Signal.
POTENTIAL.
POTENTIAL RECEF
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BY SIMILARITY.
BY SIMILARITY.
N-LINKED (GLCNAC.
N-LINKED (GLCNAC.
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N-LINKED (GLCNAC.
N-LINKED (GLCNAC.
N-LINKED (GLCNAC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (Rel. 26, Created)
(Rel. 26, Last sequ
(Rel. 43, Last anno
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             68851 MW;
                                                                                                                                                      EMBL; U20353; AAA84745.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    72; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STANDARD;
                                                                                                                                                                                                                                                                                                                                                              611
240
264
611
226
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265
119
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01-JUL-1993
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15-MAR-2004
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DOMAIN
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Best Local
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GHR_CHICK
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PGKPTEIKĊRŚPEKETFICWWKPGSDGGLPTTYALYYRKEGSDVVHECPDYHTAGKNSCF 88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      147 WIKWSPPTLIDLKTGWFTLLYEIRLKPE-KAAEWEIHFAGOOTEFKILSLHPGOKYLVOV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cheng C.H.K., Shaw P.C., Tsim K.W.K., Lau K.F.,
Submitted (JAN-1996) to the EMBL/GenBank/DDBJ databases.
-!- FUNCTION: This is a receptor for pituitary gland growth hormone.
-!- SUBGNIT: Homodimer (By similarity).
-!- SUBCELLULAR LOCATION: Type I membrane protein.
-!- SIMILARITY: Belongs to the type I cytokine family of receptors.
Subfamily 1.
-!- SIMILARITY: Contains 1 fibronectin type III domain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Columba livia (Domestic pigeon).
Eukaryota; Metazoa, Chordata; Craniata; Vertebrata; Euteleostomi;
Archosauria; Ayves; Neognathae; Columbiformes; Columbidae; Columba.
                                                                                                                                                                                                                                                                                                                                                                        BY SIMILARITY.
BY SIMILARITY.
N-LINKED (GLCNAC, . .) (POTENTIAL)
N-LINKED (GLCNAC, . .) (ROTENTIAL)
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Э
                       EMBL; LS.,

R HSSP; P16471; LBP3.

R HSSP; P16471; LBP3.

R InterPro; IPR002996; CRLA.

DR InterPro; IPR003961; FW III-like.

DR InterPro; IPR003528; Hemtopoptn_L_F1.

DR PEam; PP00041; fn3; 2.

DR SWART; SM00060; FN3; 2.

DR SWART; SM00060; FN3; 2.

DR PROSITE; PS01352; HEMATOPO REC L_F1; 1.

BY SIMILARITY.

BY SIMILARITY.

BY SIMILARITY.

630 EXTRACELLULAR (POTENTIAL).

COMPRITAL.

TIL.

TIL
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15-MAR-2004 (Rel. 43, Last annotation update)
Growth hormone receptor precursor (GH receptor) (Serum binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; Score 549.5; DB 1; Length 630;
; Pred. No. 8.1e-44;
26; Mismatches 55; Indels 3
                                                                                                                                                                                                                                                                                                                                                                                                                                         01
70810 MW; A451563F3D12979D CRC64;
                                                                                                                                                                                                                                                                                                  POTENTIAL.
CYTOPLASMIC (POTENTIAL).
FIBRONECTIN TYPE-III 1.
FIBRONECTIN TYPE-III 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          611 AA
or send an email to license@isb-sib.ch)
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01-NOV-1997 (Rel. 35, Last seq
15-MAR-2004 (Rel. 43, Last anno
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          54.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            101; Conservative
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76
92
101
630 AA;
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Q90375;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 protein).
GHR.
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Best Local S
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CARBOHYD
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62 62

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01-AUG-1990 (Rel. 15, Created)
01-AUG-1990 (Rel. 15, Last sequence update)
15-MAR-2004 (Rel. 44, Lanctation update)
15-MAR-2004 (Rel. 44)
                                                                                                               Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EMBL; J04811; AAA41219.1; -. PIR; A32985; A33505.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                   Rattus norvegicus (Rat).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             638 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        L Similarity
67; Conser
                                                                                                                                                 NCBI_TaxID=10116;
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266
2866
280
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CARBOHYD
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Best Local S
Matches 67
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                                                                      protein).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SIGNAL
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                                                                                                                                                                                                                    This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its work pron-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      89 GKQYTSMWRTY-IMMVNATQMGSSFSDELYVDVTYIVQPDPPLELAVEVKQPEDRKPY-- 145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    141
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         86 NISYTSIWIPYCVKLANKDEV----FDEKCFSVDEIVLPDPPVHLNWTLLNTSQTGIHGD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 146 LWIKWSPPTLIDLKTGWFTLLYBIRLKPEKAAEWEIHFAGQQTBFKILSLHPGQKYLVQV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PEIFKCRSPNKETFTCWWRPGTDGGLPTN--YSLTYHREGETLMHECPDYITGGPNSCHF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                29 PQISKCRSPELETPSCYW---TDGKVTTSGTIQLLYMKRSDEDWKECPDYITAGENSCYF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
            MEDLINE=91243665; PubMed=2036984;

Burnside J., Liou S.S., Cogburn L.A.;

Molecular cloning of the chicken growth hormone receptor complementary decayribonucleic acid: mutation of the gene in sex-linked dwarf chickens.";

Endocrinology 128:3183-3192(1991).

-: FUNCTION: This is a receptor for pituitary gland growth hormone.

-: SUBCELLULAR LOCATION: Type I membrane protein.

-: SUBCELTULAR LOCATION: Type I membrane protein.

-: SIMILARITY: Belongs to the type I cytokine family of receptors. Subfamily 1:

-: SIMILARITY: Contains I fibronectin type III domain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   POTENTIAL,

GROWTH HORMOUR RECEPTOR.

EXTRACELLULAR (POTENTIAL).

POTENTIAL.

CYTOPLASMIC (POTENTIAL).

FIRRONBCTIN TYPE-III.

BY SIMILARITY.

BY SIMILARITY.

BY SIMILARITY.

BY SIMILARITY.

N-LINKED (GLCNAC. . .) (POTENTIAL).

N-LINKED (GLCNAC. . .) (POTENTIAL).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 76; Indels
                                                                                                                                                                                                                                                                                                                                         EMBL; M74057; AAA48781.1; -.
PIR; S32823; S32823.
PIRSP; P10912; LAX.
INCEPPO; IPR012996; CRIA.
INCEPPO; IPR012996; FN III-like.
INCEPPO; IPR013961; FN III.
INCEPPO; IPR013961; FN III.
INCEPPO; IPR013961; FN III.
Pfam; SM00060; FN3; 1.
PROSITE; PS01352; HEMATOPO_REC_LF1; 1.
Receptor; Transmembrane; Glycoprotein; Signal.
SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25.4%; Score 296; DB 1; 35.5%; Pred. No. 4.4e-20; ive 30; Mismatches 76;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          68572 MW;
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608 AA;
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GHR_RAT
ID _ GHR_RAT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GKPEIFKCRSPNKETFTCWWRPGTDGGL--PTNYSLTYHR----EGETLMHECPDYITGG
                                                                                                                                                                                                       Craniata, Vertebrata, Euteleostomi;
Sciurognathi, Muridae; Murinae; Rattus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (POTENTIAL). (POTENTIAL). (POTENTIAL).
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0D8E9AF759A21A3B CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GROWTH HORMONE RECEPTOR. EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BY SIMILARITY.
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N-LINKED (GLCNAC. ..) (;
N-LINKED (GLCNAC. ..) (;
N-LINKED (GLCNAC. ..) (;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ..2e-19;
                                                                 [1] _
SEQUENCE FROM N.A.
MEDLINE=89255563; PubMed=2722883;
Mathews L.S., Enberg B., Norstedt G.;
Mathews L.S., Enberg B., Norstedt G.;
"Regulation of rat growth hormone receptor gene f
J. Biol. Chem. 264:9905-9910(1989).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    HIST. PIOSIZ: 1A22.
INTERPRO: IPRO12996; CRIA.
INTERPRO: IPRO13961; FN_III.
INTERPRO: IPRO03961; FN_III.
PFam; PF00041; fn3; 1.
SNART; SM00060; FN3; 1.
RGCSTE; PS01352; HENALOPO REC_LF1; 1.
Receptor; Transmembrane; Glycoprotein; Signal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                24; Mismatches
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71236 MW;
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109 ANSCYFNSKYTSIWIPYCIKLTT---NGDLLDEKCFTVDEIVQPDPPIGLNWTLINISLP 165
                                                              EDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWEIHFAGQQTEFKILSLHPGQ 199
                                                                                        166 GIRGD-IQVSWQPPPSADVLXGWIILEYEIQYXEVNETKWRIMSPIWSTSVPLYSLRLDK 224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Bos taurus (Bovine).
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Cetartiodactyla, Ruminantia, Pecora, Bovoidea,
Bovidae, Bovinae, Bos.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GLCNAC. .) (POTENTIAL).
                                                                                                                                                                                                                                                                                                                         01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
15-WAR-2004 (Rel. 43, Last annotation update)
Growth hormone receptor precursor (GH receptor) (Serum binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CYTOPLASMIC (POTENTIAL).
FIBRONECTIN TYPE-III.
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N-LINKED (GLCNAC. .) (POTIN-LINKED (GLCNA
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GROWTH HORMONE RECEPTOR.
EXTRACELLULAR (POTENTIAL)
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Interpro; IPR003961; FN III.
Interpro; IPR003528; Hemtopoptn_LFI.
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70979 MW;
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HSSP; P10912; 1A22.
                                                                                                                                                                                                                                                                                         STANDARD;
                                                                                                                                             KYLVQVRCK 208
                                                                                                                                                                     :: |:|| :
EHEVRVRSR 233
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GHR.
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                                                                                                    166 DIL-VKWEPPPNTDVKMGWILLEYELHYKELNETQWRGMDPLMVTSVPMYSLRLDKEYEV 224
                                                                                                                                                                          29 GKPEIFKCRSPNKETFTCWWRPGTDGGL--PTNYSLTYHREGETLMHECPDYITGGPNSC
                                                                                                                                                                                                                         144 PYLWIKWSPPTLIDLKTGWFTLLYBIRLKPEKAAEWEIHFAGQQTEFKILSLHPGQKYLV
                                             Gaps
                                             6
         Length 634;
                                           Indels
         DB 1;
 24.9%; Score 290.5; DB 1
34.6%; Pred. No. 1.5e-19;
ive 26; Mismatches 86
                                                                                                                                                                                                                                                                                                                                                                                            completed: May 12, 2004, 16:17:57
ne : 18 secs
Query Match
Best Local Similarity 34.61
Matches 64; Conservative
                                                                                                                                                                                                                                                                                                    204 QVRCK 208
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Q90wg7 cynops pyrr Q9pth9 xenopus lae Q9pth xenopus lae Q9de08 chorothynchu Q9de08 chorothynchu Q9de16 paralichthy O3404 oreochromis Q9g54 cyprinus ca Q9gpth carassius a Q9dfu0 sparus aura Q9pth1 xenopus lae Q9pth1 xenopus lae Q9pth1 xenopus lae Q9de35 pelodiscus Q9de36 columba liv Q9dips aniuropus Q9dips aniuropus Q9dips aniuropus Q9jktl cavia porce Q9jktl cavia porce Q9jktl cavia porce Q9jmg9 rattus sp. Q9jmg9 rattus sp.

090255 scophthalmu 090256 scophthalmu 091kgl cavia porce 095b0 carassius a 07t3ul ctenopharyn

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1; Gaps

. .; IEA.

Result

3

OM protein

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20 TISSUE=Breast tumor;
20 TISSUE=Breast tumor;
31 Trott 1.7.; Hovey R.C.; Koduri S., Vonderhaar B.K.;
32 Trott 1.7.; Hovey R.C.; Koduri S., Vonderhaar B.K.;
33 Trott 1.7.; Hovey R.C.; Koduri S., Vonderhaar B.K.;
34 Trott 1.7.; Hovey R.C.; Koduri S., Vonderhaar B.K.;
35 Tabmitted (VAR-2002) to the EMBL/GenBank/DDBJ databases.
36 Submitted (VAR-2002) to the EMBL/GenBank/DDBJ databases.
37 EMBL, AAP92470, AAM180481; 1EA.
38 GO: 00104896; F:hematopoietin/interferon-class (D200-domain. . .; IEA GO: 00104896; F:hematopoietin/interferon-class (D200-domain. . .; IEA DR GO: 00104896; F:hematopoietin/interferon-class (D200-domain. . .; IEA DR InterPro; IPR003961; FN III.
38 InterPro; IPR003961; FN III.
39 InterPro; IPR003961; FN III.
30 InterPro; IPR003961; FN III.
30 InterPro; IPR003961; FN III.
31 ENGLIPS SM00601; EN3; 2.
31 ENGLIPS PS01352; HEMATOPO_REC_L_F1; 1.
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Homo sapiens (Human).

Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi;

Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match

99.1%; Score 1155.5; DB 4; Length 268;
Best Local Similarity 99.5%; Pred. No. 6.6e-109;
Matches 210; Conservative 0; Mismatches 0; Indels 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      268 AA; 30705 MW; FBB498AB649A078C CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-JUN-2002 (TrEMBLrel. 21, Created)
01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
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                  09PTH9
09PTH9
09PTH0
099DE08
093404
099PTD
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  PRELIMINARY;
616.5
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597.5
541.5
528
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  Q8TD78
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Q9cp36 homo sapien
Q9cp36 homo sapien
Q9cp35 homo sapien
Q8c5v4 cebus apell
Q9n017 callithrix
Q16354 homo sapien
Q9c971 mus musculu
Q9c971 mus musculu
Q9c971 mus musculu
Q8cd76 homo sapien
Q8cd76 homo sapien
Q8cd75 homo sapien
Q9cd78 homo sapien
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tter than or equal to the score of the result being printed,
ived by analysis of the total score distribution.
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1166
1 MKENVASATVFTLLLFLNTC......KILSLHPGQKYLVQVRCKPD 210
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                      GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                Total number of hits satisfying chosen parameters:
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                                                                                                           using sw model
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1: sp_archea:*
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5: sp_luman:*
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Q90N0J7
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Q9XS92
Q9SC7G1
Q99C7G1
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Gapop 10.0 , Gapext 0.5
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and is derived by analysis of
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Maximum Match 100%
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Perfect score:
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Database :

Searched:

Sequence:

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349 AA; 39806 MW;
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Best Local Similarity 99.5
Matches 210; Conservative
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SEQUENCE
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                           SLIYHREGETLMHECPDYITGGPNSCHFGKQYTSMWRTYIMMVNAT-QMGSSFSDELYVD 119
                                                  61 SLIYHREGETLMHECPDYITGGPNSCHFGKQYTSMWRTYIMMVNATNQMGSSFSDELYVD 120
                                                                               120 VTYIVQPDPPLELAVEVKQPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEW 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SLITYHREGETLMHECPDYIIGGPNSCHFGKQYISMWRIYIMMVNAI-QMGSSFSDELYVD 119
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1 MKENVASATVFTLLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNY 60
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                                                                                                                                                                                                                                                                                                                            Homo sapiens (Human).
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PIR; BS9405; BS9408.

GO; GO:10104020; C:membrane; IEA.

GO; GO:10044996; P:receptor activity; IEA.

GO; GO:0044872; F:receptor activity; IEA.

GO; GO:004872; F:receptor activity; IEA.

InterPro; IPR002996; CRIA.

InterPro; IPR003957; FN III.

InterPro; IPR0038957; FN III.

InterPro; IPR0038957; FN III.

SMART; SM00060; FN3; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 1155.5; DB 4; Length 288;
Pred. No. 7.2e-109;
0; Mismatches 0; Indels 1;
                                                                                                                                                                                                                                                                                                                                                                                                                        Trott J.F., Hovey R.C., Vonderhaar B.K.; "Expression of two novel hPRLR isoforms in breast tumors."; Submitted (SEP-2001) to the EMBL/GenBank/DDBJ databases. EMBL; AF416618; AAL23914.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               288 AA; 32760 MW; B45203EC045EB417 CRC64;
                                                                                                                                                                                                                                                       01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
Prolactin receptor short isoform A.
                                                                                                                                     180 EIHFAGOOTEFKILSLHPGOKYLVOVRCKPD 210
                                                                                                                                                     EIHFAGQQTEFKILSLHPGQKYLVQVRCKPD 211
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Best Local Similarity 99.5%;
Matches 210; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                           TISSUE=Placenta;
                                                                                                                                                                                                                                                                                                                                                                      NCBI_TaxID=9606;
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SEQUENCE
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                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
MEDLINE=20054419; PubMed=10585417;
Kline J.B., Roehrs H., Clevenger C.V.;
"Functional characterization of the intermediate isoform of the human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 MKENVASATVFTLLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNY
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                                                                                                                              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
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Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                 HSSP; P16471; 18P3.

GO; GO:0016020; C:membrane; IEA.

GO; GO:0004872; F:hematopoietin/interferon-class (D200-domain.

GO; GO:0004872; F:hematopoietin/interferon-class (D200-domain.

GO; GO:0004872; F:hematopoietin/interferon

InterPro; IPR00396; CRIA.

InterPro; IPR003961; FN III.

InterPro; IPR003951; FN III.like.

InterPro; IPR003528; Hemtopoptn_L.FI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          99.1%; Score 1155.5; DB 4; Length 349; 99.5%; Pred. No. 9.1e-109; ive 0; Mismatches 0; Indels 1;
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"Expression of two novel hPRLR isoforms in breast tumors.";
Submitted (SEP-2001) to the EMBL/GenBank/DDBJ databases.
EMBL; AF416619; A5123915.1; -.
PIR; A59405; A59405.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      932F200E850CDD27 CRC64;
01-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-MAY-2000 (TrEMBLrel. 25, Last annotation update)
Intermediate prolacin receptor isoform.
Homo sapiens (Human).
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01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
Prolactin receptor short isoform B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EIHFAGQQTEFKILSLHPGQKYLVQVRCKPD 210
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pfam; PF00041; fn3; 2.
SMART; SM00060; FN3; 2.
PROSITE; PS01352; HEMATOPO_REC_L_F1; 1.
                                                                                                                                                                                                                                                                                                                                                      prolactin receptor.";
J. Biol. Chem. 274:35461-35468(1999)
EMBL; AF166329; AAD49855.1; -.
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Rojas-Garcia P.P., Germain A., Torres-Farfan C.L., Richter H.G.,
Rojas-Garcia P.P., Germain A., Torres-Farfan C.L., Richter H.G.,
Campino C., Seron-Ferre M.J.;
The Campino of prolactin (PRL) receptor in ovary of capuchin monkey.
Initial sundies "...
Submittad (JAN-2003) to the EMBL/GenBank/DDBJ databases.
EMBL; AY22708; AA073437.1; -.
RMBL; AY22708; AA073437.1; -.
RMBL; ROSO GO:0004872; F:nemenbrane; IEA.
GO; GO:0004872; F:nemenbrane; IEA.
GO; GO:0004872; F:receptor activity; IEA.
ROS GO:0004872; F:nemenbrane; III.
RICHEPRO; IPR00396; FRI III.
RICHEPRO; IPR00396; FRI III.
RICHEPRO; IPR00396; FRI III.
RICHEPRO; IPR00396; FRI III.
RICHEPRO; PR00396; FRI III.
                                                                                                                                                                                                                                                                                                                                                                61 SLIYHREGETLMHECPDXITGGPNSCHFGKQYTSMWRTYIMMVNATNQMGSSFSDELXVD 120
                                                                                                                                                                                                                                                                                                                                                                                                                                   121 VTYIVQPDPPLELAVEVKQPEDRKPYLMIKWSPPTLIDLKTGWFTLLYBIRLKPEKAAEW 180
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                                                                                                                                                                                                                                                                                                                                                                                                              VTYIVQPDPPLELAVEVKQPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEW 179
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                                                                                                                                                                                                                                                                               1 MKENVASATVPTLLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNY 60
GO; GO:0016020; C:membrane; IEA.

GO; GO:0004896; F:hematopoietin/interferon-class (D200-domain. . ; IEA.

GO; GO:0004972; F:receptor activity; IEA.

InterPro; IPR002996; CRIA.

InterPro; IPR003961; FN III.

InterPro; IPR003961; FN III.

InterPro; IPR003963; Hemtopoptn_L.FI.

Pfam; PF00041; fn3; 2.
                                                                                                                                                                                                                                                                                                    1 MKENVASATVFTLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWARPGTDGGLPTNY
                                                                                                                                                                                                                                                 1; Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Cebus apella (Brown-capped capuchin).
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Eutheria; Primates; Platyrrhini; Cebidae; Cebinae; Cebus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 93.4%; Score 1088.5; DB 6; Length 622; Best Local Similarity 91.9%; Pred. No. 1.1e-101; Matches 194; Conservative 8; Mismatches 8; Indels 1;
                                                                                                                                                                                                              Query Match
99.1%; Score 1155.5; DB 4; Length 376;
Best Local Similarity 99.5%; Pred. No. 9.9e-109;
Matches 210; Conservative 0; Mismatches 0; Indels 1;
                                                                                                                                                                                 376 AA; 42639 MW; 112DC2555FBC4601 CRC64;
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01-JUN-2003 (TrEMBLrel. 24, Created)
01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
01-JUN-2003 (TrEMBLrel. 25, Last annotation update)
Prolactin receptor long form.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           622 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PROSITE; PS01352; HEMATOPO_REC_L_F1; 1.
                                                                                                                            SMART; SM00060; FN3; 2.
PROSITE; PS01352; HEWATOPO_REC_L_F1; 1.
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                                                                                                                                                                   Receptor.
SEQUENCE
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1 MKENVASATVPTLLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNY

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                                                                                                                                        61 SLTYHREGETLIHECPDYITGGPNSCHFGKQYTSMWRTYVWTVNATNEMGSTFSNELYVD 120
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GO: GO:0016020; C:membrane; IEA.

GO: GO:0004896; F:hematopoietin/interferon-class (D200-domain. .; IEA.

GO: GO:0004895; F:hematopoietin/interferon-class (D200-domain. .; IEA.

GO: GO:0004895; F:hematopoietin/interferon-class (D200-domain. .; IEA.

InterPro; IPR002996; FN. III.

InterPro; IPR003961; FN. III.

InterPro; IPR0039528; Hemtopoptn_LPI.

Pfam: PF00041; fn3; 2.

SMART; SM00060; FN3; 2.
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MEDIJNE=20457117; PubMed=11000523;

MEDIJNE=20457117; PubMed=11000523;

Dalrymaple A., Edery M., Jabbour H.;

Sequence and tunctional characterization of the marmoset monkey

(Callithrix jacchus) prolactin receptor: comparative homology with the human long-form prolactin receptor.";

Mol. Cell. Endocrinol. 167:89-97(2000).

EMBL; AJ272217; CABTS847.1;

HSSP; P16471; 1BP3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-0CT-2000 (TrEMBLrel. 15, Created)
01-0CT-2000 (TrEMBLrel. 15, Last sequence update)
01-0CT-2003 (TrEMBLrel. 25, Last annotation update)
Prolactin receptor precursor.
Callithrix jacchus (Common marmoset).
Eukaryota, Metazoa, Chordata; Craniata, Vertebrata; Euteleostomi,
Mammalia, Eutheria; Primates; Platyrrhini; Callitrichidae, Callithrix.
1 MXENVASATVFTLLFLATCLLNGQSPPGKPEIFKCRSPNKETFTCWWRPGADGGLPTNY
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90.3%; Score 1052.5; DB 6; Length 622;
Best Local Similarity 87.2%; Pred. No. 5.1e-98;
Matches 184; Conservative 13; Mismatches 13; Indels 1; Gaps
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                                                                                                                                                                                                                                                                                                                                                                        180 EIHFAGQQTEFKILSLHPGQKYLVQVRCKPD 210
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Q9NOJ7
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SEQUENCE
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Best Local S:
Matches 156
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Q8C7G1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61 SCHFGKQYTSMWRTYIMWWAINQMGSSFSDELYVDVTYIVQPDPPLELAVEVKQPEDRK 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            85 SCHFGKQYTSMWRTYIMMVNAT-QMGSSFSDELYVDVTYIVQPDPPLELAVEVKQPEDRK 143
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GO; GO:0004896; F:hematopoietin/interferon-class (D200-domain. , .; IEA.
GO; GO:0004872; F:receptor activity; IEA.
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                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.

MEDLINE=95286597; PubMed=7768908;
Fun G., Wells J.A.;

"Prolactin receptor antagonists that inhibit the growth of breast cancer cell lines.";

"D Blol. Chem. 270:13133-13137 (1995).

EMBL; 878505; AAB34470.1;

HSSP; P16471; 1BP2.
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Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Metatheria; Diprotodontia; Phalangeridae; Trichosurus.
NCBI_TaxID=9337;
                                                                                                                                                                                                                                                                     Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
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                                                                                                                               01-NOV-1996 (TrEMBLrel. 01, Created)
01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
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01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
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                                                                             206 AA
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SMART; SM00060; FN3; 2.
PROSITE; PS01352; HEMATOPO_REC_L_F1; 1.
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InterPro; IPR003961; FN III.
InterPro; IPR003528; Hemtopoptn_L_F1.
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                                                                             PRT;
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MEDLINE=99236966; PubMed=10221777;
                                                                                                                                                                                                                  Prolactin receptor (Fragment).
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                                                                             PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRELIMINARY;
                                                                                                                                                                                                                                             Homo sapiens (Human).
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                                                                                                                                                                                                                                                                                                                          NCBI_TaxID=9606;
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SEQUENCE
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Demmer J.;

The prolactin receptor from the brushtail possum (Trichosurus valpecula): cDNA cloning, expression and functional analysis.";

The prolactin cDNA cloning, expression and functional analysis.";

Wol. Call. Endocrinol. 148:119-127(1999).

EMBL; AF098296; AAD27039-1;

EMBL; AF098296; AAD27039-1;

R GO; GO:0004896; F:hematopoietin/interferon-class (D200-domain. .; IEA. GO; GO:0004892; F:receptor activity; IEA.

R GO; GO:0004896; F:receptor activity; IEA.

R InterPro; IPR002996; CRIA.

EN InterPro; IPR003998; FN III.

DR InterPro; IPR003998; FN III.

DR FART; SM00060; FN3; 2.

SMART; SM00060; FN3; 2.

PROSITE; PRO1322; HEMATOPO_REC_L_F1; 1.
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STRAIN=CSPIL(64) TISSUE-Liver;

MEDLINE=22354683; PubMed=12466851;

MEDLINE=22354683; PubMed=12466851;

A The FANTOM Consortium,

A The FANTOM Consortium,

A The RIKEN Genome Exploration Research Group Phase I & II Team;

A Thanalysis of the mouse transcriptome based on functional annotation of mount of the color of the c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 MKENVASATVFTLLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 MKENVTSATAFLLLFLHTTLLNGQSAPGKPKIEKCRSPEKETFTCWWKPGSDGGIPTNY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61 SLIYHREGETLMHECPDYITGGPNSCHFGKQYTSMWRTYIMMVNAT-QMGSSFSDELYVD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
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Mammalia, Butheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus.
NCBI TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   tch 76.2%; Score 888.5; DB 6; Length 625; al Similarity 73.9%; Pred. No. 2.2e-81; 156; Conservative 25; Mismatches 29; Indels 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            POTENTIAL.
PROLACTIN RECEPTOR.
2097D72827C9DBB6 CRC64;
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01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                292 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PROSITE; PS01352; HEMATOPO REC L F1; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Prolactin receptor related sequence 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               70539 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               625 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Receptor; Signal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mus musculus
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VTYIVQPDPPLELAVEVKQPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEW 179
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  . MKENVASRAVFILLIFILMSDLINGQSPPGKPKIIKCRSPGKETFICWWEPGSDGGLPTNY
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          [1]
SEQUENCE FROM N.A.
NEDLINE-98389256; PubMed=9723863;
Jabbour H.N., Clarke L.A., Bramley T., Postal-Vinay M.C., Kelly P.A.,
Jabbour H.N., Clarke L.A., Bramley T., Postal-Vinay M.C., Kelly P.A.,
Bdery M.;
Edery M.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cervus elaphus (Red deer).

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Eukaryota; Metazoa; Chordata; Craniata; Pecora; Cervoldea;

Cervidae; Cervinae; Cervus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DET.:

ONTO 1-10.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C020E070D970AC40 CRC64;
                                                                                                                                                                                                                                                                                                                                                         Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                198 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GO, GO:0004872; F:receptor activity; IEA. InterPro; IPR002996; CRIA. InterPro; IPR003961; FN III. InterPro; IPR008957; FN III-like.
                                                                                                                                                                                                                                                                                                                          Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      testis.", ". Mol. Endocrinol. 21:51-59(1998). EMBL; Y14753; CAA75048.1; -. HSSP; P16471; IBP3.
                                          198 AA; 22652 MW;
192 ILSLHPGOKYLVQVRCKPD
                                                                                                                                                                                                                                                                                                              01-JAN-1998 (TREMBLEE). 05,
01-JAN-1998 (TREMBLEE). 05,
01-OCT-2003 (TREMBLEE). 25,
Soluble prolactin receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Local Similarity 72.9%
Matches 132; Conservative
                                                                                                                                                                                                                                                    PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pfam; PF00041; fn3; 1.
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                                                                                                                                                                              RESULT 11
O18985
ID O18985
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LAVEVKQPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWEIHFAGQQTEFK 191
                                                                                                                                                                                                                                                                                                                                                                67 EGETLMHECPDYITGGPNSCHFGKQYTSMWRTYIMMVNAT-QMGSSFSDELYVDVTYIVQ 125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                126 PDPPLELAVEVKOPEDRKPYLMIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWEIHFAG 185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       67
                                                                                                                                                                                                                                                                                                                                                                                                               MGD; MGI:97763; FrIr.
GO; GO:0016020; C:membrane; IEA.
GO; GO:0004896; F:hematopoietin/interferon-class (D200-domain. . .; IEA.
GO; GO:0004872; F:receptor activity; IEA.
InterPro; IPR002996; CRIA.
InterPro; IPR003961; FN III.
InterPro; IPR009957; FN III.
InterPro; IPR009957; FN III.
InterPro; IPR009957; FN III.
                                                                                                                                                                                                                                                               2 SSALAYMLLVLSISLLNGQSPPGKPEIHKCRSPDKETFTCWMNPGSDGGLPTNYSLTYSK 61
                                                                                                                                                                                                                         7 SATVFILLIFINTCLINGQLPPGKPEIFKCRSPNKETFICWWRPGTDGGLPTNYSLIYHR 66
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       13 LLLFLNTCLLNGQLPPGKPEIFKCRSPNKETFTCWWRPGTDGGLPTNYSLTYHREGETLM
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                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Musinae; Mus
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                                                                                                                                                   1;
                                                                             DB 11; Length 292;
                                                                         / Match 69.9%; Score 814.5; DB 11; Length Local Similarity 69.8%; Pred. No. 2.8e-74; Pred 143; Conservative 25; Mismatches 36; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Strausberg R.;
Submitted (APR-2001) to the EMBL/GenBank/DDBJ databases.
EMBL; BC006555; AAH05555.1;
EMBL; BC006552; AAH05652.1;
HSSP; P16471; 1BP3.
MGD; MGI:97763; Prlr.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      608 AA; 68223 MW; 2710DAEC2B1A8F63 CRC64;
       33618 MW; 9D60422B59E88A19 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Created)
Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   608 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       186 QQTEFKILSLHPGQKYLVQVRCKPD 210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-JUN-2001 (TrEMBLrel. 17,
01-JUN-2001 (TrEMBLrel. 17,
01-OCT-2003 (TrEMBLrel. 25,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Local Similarity 71.4
Matches 142, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               musculus (Mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Prolactin receptor.
               292 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
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           SEQUENCE
                                                                                 Query Match
                                                                                                                                                              Matches
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Q99JZ1
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131 ELAVEVKOPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWEIHFAGQQTEF 190
                                                                   61 ELAVEVKQPEDRKPYLMIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWEIHPAGQQTBF 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TISSUE LIVELY:

WEDLINE=20086668; PubMed=10618652;

A HOWELL'Skalla L.A., Bunick D., Bleck G.T., Nelson R.A., Bahr J.M.;

Howell-Skalla L.A., Bunick D., Bleck G.T., Nelson R.A., Bahr J.M.;

"Clohing and sequence analysis of the extracellular region of the polar bear (Ursus maritimus) luteinizing hormone receptor (IHr);

follicle stimulating hormone receptor (FGBIr), and prolactin receptor (FRLY) genes and their expression in the testis of the black bear (Ursus americanus)."

Mol. Reprod. Dev. 55:136-145(2000).

RBHBI, AF165792; AAG10648.1; -..

RBHS.P. P16471; 1BP3.

GO: GO: 0004872; F: receptor activity; IEA.

RINERPRO, IPRO02996; CRIA.

RINERPRO; IPRO02996; CRIA.

RINERPRO; IPRO039961; F. III.

R FAMR; SMO060; FN3; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       101 MAVNAT-QMGSSFSDELYVDVTYIVQPDPPLELAVEVKQPEDRKPYLWIKWSPPTLIDLK 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   41 KETFTCWWRPGTDGGLPINYSLTYHREGETLMHECPDYITGGPNSCHFGKQYTSMWRTYI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-0CT-2003 (TrEMBLrel. 25, Created)
01-0CT-2003 (TrEMBLrel. 25, Last sequence update)
01-0CT-2003 (TrEMBLrel. 25, Last annotation update)
01-0CT-2003 (TrEMBLrel. 25, Last annotation update)
Prolactin receptor (Fragment).
Gallus gallus (Chicken).
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
                                                                                                                                                                                                                                                                                                                          01-MAR-2001 (TrEMBLrel. 16, Created)
01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-MAR-2003 (TrEMBLrel. 24, Last annotation update)
Prolactin receptor (Fragment)
Prolactin receptor (Fragment)
Ursus maritimus)
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Carnivora, Fissipedia, Ursidae, Ursus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  160 TGWFTLLYEIRLKPEKAAEWEIHFAGQQTEFKILSLHPGQKYLVQVRCKPD 210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        / Match 65.1%; Score 758.5; DB 6; Length 227; Local Similarity 75.4%; Pred. No. 9.8e-69; nes 129; Conservative 22; Mismatches 19; Indels 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               227 AA; · 26114 MW; F5E6C5F33B5D5B49 CRC64;
                                                                                                                                                                                                                                                                                        227 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              460 AA.
                                                                                                                                                                                                                                                                                        · PRT;
                                                                                                                                                       121 KILSLHPGQKYLVQVRCKPD 140
                                                                                                                            191 KILSLHPGQKYLVQVRCKPD 210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            227
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NCBI TaxID=29073;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    227
                                                                                                                                                                                                                                                                                                         O9GLW3;
01-MAR-2001
01-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                rissum=Liver;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Receptor.
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07T2Z0;
                                                                                                                                                                                                                                        RESULT 14
Q9GLW3
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    72 MHECPDYITGGPNSCHFGKQYTSMWRTYIMMVNAT-QMGSSFSDELYVDVTYIVQPDPPL 130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ELAVEVKOPEDRKPYLWIKWSPPTLIDLKTGWFTLLYEIRLKPEKAAEWEIHFAGOOTEF 190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61 BLAVBVKQPEDRKPYLWIKWSPPTLIDLKTGWFTLLVSIRLKPEKAAEWEIHFAGQQTEF 120
                                           Trott J.F., Hovey R.C., Koduri S., Vonderhaar B.K.;
"Expression of multiple human prolactin receptor variants in breast
and colon cancer derived by splicing to exon 11.";
Submitted (WAR-2002) to the EMBL/GenBank/DDBJ databases.

EMBL; AF493068; AAM11660.1;
EMG. GO:10010202; C:membrane; IEA.
GO; GO:0016020; C:membrane; IEA.
GO; GO:0004872; F:receptor activity; IEA.
InterPro; IPR003521; FN III.
InterPro; IPR003528; Hemtopoptn_L_F1.
Pfam; PF00041; fn3; 1.
SWART; SM00060; FN3; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TISSUE=Breast tumor;
TISSUE=Breast tumor;
Trott J.F., Hovey R.C., Koduri S., Vonderhaar B.K.;
"Expression of multiple human prolactin receptor variants in breast and colon cancer derived by splicing to exon 11.";
Bublited (WAR-2002) to the EMBL/GenBank/DDBJ databases.
EMBL; AP43069; AAM11661.1;
GO; GO:0016020; C:membrane; IEA.
GO; GO:0004896; F:hematopoietin/interferon-class (D200-domain, ..; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 MHECPDYITGEPNSCHFGKQYISMWRIYIMMVNAINQMGSSFSDELYVDVIYIVQPDPPL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                   DB 4; Length 197;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 759.5; DB 4; Length 217;
Pred. No. 7.4e-69;
0; Mismatches 0; Indels 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Indels
                                                                                                                                                                                                                                                                                                                                                                   197 AA; 22718 MW; D916BC915621EEEF CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                217 AA; 24773 MW; E59A9BB9016C3397 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-JUN-2002 (TrEMBLrel. 21, Created)
01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
Delta 4-STlb truncated prolactin receptor.
Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 99.3%; Pred. No. 6.6e-69;
Matches 139; Conservative 0; Mismatches 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    217 AA
                                                                                                                                                                                                                                                                                                                     PROSITE, PS01352; HEMATOPO_REC_L_F1; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SMART; SM00060; FN3; 1.
PROSITE; PS01352; HEMATOPO_REC_L_F1; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          InterPro, IPR003961; FM III.
InterPro, IPR003528; Hemtopoptn_L_F1.
Pfam; PF00041; fn3; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      191 KILSLHPGQKYLVQVRCKPD 210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   121 KILSLHPGQKYLVQVRCKPD 140
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Best Local Similarity 99.3%;
Matches 139; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRELIMINARY;
SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NCBI_TaxID=9606;
                            IISSUE=Breast
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Q8TD75 RESULT 13

9

SEQUENCE

Gaps

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83 PNSCHFGKQYTSMWRTYIMMVNAT-QMGSSFSDELYVDVTYIVQPDPPLELAVEVKQPED 141
                                                                                                                                                                                                                                                                            286 PNSCYEDKKHTSFWIIYNITVRAINEMGSNSSDPHYVDVTYIVQPDPPVNVILELKKPIN 345
                                                                                                                                                                                  1; Gaps
                                      SEQUENCE FROM N.A.

Hui A.M.Y., Leung F.C.,

Hui A.M.Y., Leung F.C.,

Genomic characterization of chicken prolactin receptor gene.";

Submitted (FEB-2003) to the EMBL/GenBank/DDBJ databases.

EMBL; AX237376; AAP49452.1; -.

EMCEDIO...

NON TER 460 460

SEQUENCE 460 AA; 52901 MW; 947DA92892A19361 CRC64;
                                                                                                                                                      Query Match
59.3%; Score 691.5; DB 13; Length 460;
Best Local Similarity 62.4%; Pred. No. 1.4e-61;
Matches 118; Conservative 31; Mismatches 39; Indels 1;
                                                                                                                                                                                                                                                                                                                                                                     202 LVQVRCKPD 210
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406 IIQIHCKPD 414
Gallus.
NCBI_TaxID=9031;
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